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THE EPIDEMIOLOGY OF INFLUENZA.[1]

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The history of influenza, so far as it is known, that is, for several centuries, comprises a series of long cycles in which great pandemics alternate with periods of relative quiescence, the length of cycles as measured by the intervals between pandemics being usually a matter of decades. The special characteristics of influenza pandemics are their wide and rapid extension, their high attack rates, and their great effect upon general mortality rates. Since these cycles are undoubtedly of fundamental significance in the natural history of influenza, any proper discussion of the epidemiology of the disease should cover at least one full cycle, preferably the last, from 1889 to the present. The material for such a discussion must, however, be collected from many and diverse sources and laboriously fitted together, since there is no concrete, specific, and continuous record of the prevalence or mortality of influenza during such a period of years.

Lack of Specific Records.

During great epidemics there are abundant, if not exact, records of prevalence, and the resulting mortality can be determined with fair precision, even though a large proportion of the deaths are classified under diagnoses other than influenza. In the intervals between epidemics influenza becomes inextricably confused with other respiratory diseases, having a general clinical resemblance but no definite etiological entity, so that the record of prevalence and even of mortality is virtually lost. The first requisites for epidemiological study, namely, clear differential diagnosis and systematic records of occurrence, are therefore lacking in influenza.

In the absence of these essential records, statistics of mortality from the group comprising influenza and all forms of pneumonia afford, perhaps, the nearest approximation to a record of influenza. It is not intended to suggest that the mortality from this group of

[1] Read at joint meeting of sections on Pharmacology and Therapeutics, Pathology and Physiology, and Preventive Medicine and Public Health, of the American Medical Association, at Atlantic City, June 13, 1919. This paper was published in the Journal of the American Medical Association, vol. 73, No. 5, Aug. 2, 1919, pp. 313-318.

diseases furnishes in any sense a *measure* of the prevalence of influenza, but only that it furnishes an *index*, since it is well established that the epidemic prevalence of influenza markedly affects the mortality from this group of diseases, and since it is at least probable that even in nonepidemic periods there may be some intimate and constant relation between the prevalence of influenza and the mortality from pneumonia.

The following discussion, which is necessarily confined to a few broad outlines, is, accordingly, based on records of mortality from influenza and pneumonia for a series of years, statistics of general mortality during the recent epidemic, and limited morbidity statistics.

Influenza and Pneumonia Mortality in Massachusetts, 1887-1916.

Table I and Chart 1 show for Massachusetts, a State in which continuous records are available, the number of deaths and the death rates per 100,000 from influenza and from all forms of pneumonia, by months, from 1887 to 1916, inclusive.

TABLE 1.—*Death rates per 100,000 of population from pneumonia (all forms) and from influenza in Massachusetts, 1887–1916, inclusive.*

PNEUMONIA.

Year.	Total per year.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1887	138.8	19.5	16.7	1.9	22.6	16.1	7.7	5.5	4.1	5.6	9.0	14.8	15.3
1888	172.7	24.7	25.1	26.4	21.3	16.4	8.0	5.5	4.0	6.2	11.4	9.8	13.9
1889	156.6	17.9	16.3	21.1	19.8	14.9	7.5	5.3	5.2	5.4	10.6	13.2	19.3
1890	180.0	47.8	17.7	17.6	20.1	12.7	8.5	6.2	4.8	5.0	9.4	11.8	18.3
1891	188.5	20.6	16.4	20.6	25.1	23.9	10.1	5.9	4.0	4.0	7.7	13.8	36.4
1892	213.0	61.5	25.2	23.1	21.4	17.0	8.3	5.4	4.2	6.8	8.5	12.5	19.0
1893	225.8	27.3	25.4	28.6	33.1	27.3	11.1	8.0	5.0	6.1	9.8	14.3	31.9
1894	166.0	32.8	19.9	22.7	18.5	14.0	8.5	5.1	5.1	6.8	8.2	11.3	13.6
1895	184.1	19.1	34.4	30.8	20.9	14.4	7.6	5.6	5.3	4.7	10.5	13.4	17.3
1896	182.0	19.5	20.7	24.9	25.9	18.7	10.3	7.6	4.5	7.6	10.7	12.7	18.8
1897	181.6	21.1	24.9	31.5	19.7	15.2	10.2	7.0	4.5	6.0	11.7	13.1	16.9
1898	156.0	18.8	17.1	18.5	18.7	15.7	6.6	6.0	4.8	5.6	10.6	12.8	21.0
1899	181.3	37.5	25.8	20.6	18.4	14.0	8.9	5.0	4.8	5.8	8.2	13.2	19.0
1900	188.3	22.7	21.1	42.0	30.5	17.6	8.7	5.3	4.3	5.3	6.2	9.9	14.7
1901	167.7	22.6	26.6	26.2	19.9	13.9	7.7	3.4	3.4	5.7	9.1	14.2	15.1
1902	158.9	15.7	18.9	19.9	16.8	15.5	8.0	6.2	5.3	5.7	11.8	14.5	20.6
1903	172.5	25.2	25.8	25.4	18.1	16.8	8.2	7.0	4.5	4.6	7.7	13.3	18.9
1904	172.1	22.6	22.7	24.1	21.2	14.2	6.7	5.9	4.4	6.5	9.4	15.0	19.5
1905	178.3	24.7	27.7	23.6	17.1	15.5	8.5	5.4	4.8	6.2	8.9	15.8	20.0
1906	174.1	22.5	21.9	24.1	21.7	14.9	5.1	6.2	5.0	6.0	9.4	13.8	21.0
1907	180.4	25.5	24.4	23.4	18.3	14.3	9.5	5.1	5.1	7.1	9.3	12.7	26.9
1908	165.8	26.6	22.2	21.1	19.4	13.5	6.6	4.9	5.8	6.4	9.2	12.4	17.6
1909	170.3	22.1	20.0	26.1	20.1	16.0	9.7	5.1	5.0	5.4	8.9	13.6	18.3
1910	197.6	24.1	20.7	27.5	23.3	16.9	9.7	7.3	6.3	9.1	12.3	17.0	23.6
1911	174.4	22.6	27.1	23.9	20.2	16.9	7.2	6.7	6.1	6.7	9.0	11.8	16.2
1912	152.0	19.8	20.2	21.2	16.4	13.3	6.2	5.0	4.1	5.8	9.5	10.5	19.9
1913	172.2	23.5	22.8	24.9	19.3	17.1	10.7	6.2	5.4	6.7	8.3	10.4	16.8
1914	166.0	22.9	20.1	23.2	20.4	15.2	8.2	5.1	5.5	6.0	10.1	12.6	16.8
1915	176.0	17.8	19.3	28.5	27.7	13.6	6.6	7.1	5.8	6.0	8.8	9.8	22.1
1916	176.6	35.6	25.5	23.0	17.3	14.0	7.4	5.3	4.1	5.9	7.6	12.8	18.3

TABLE 1.—*Death rates per 100,000 of population from pneumonia (all forms) and from influenza in Massachusetts, 1887—1916, inclusive*—Continued.

INFLUENZA.

Year.	Total for year.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1887.....	0.90	0.05	0.14	0.28	0.14	0.05	.....	.....	.....	0.05	0.10	0.05	0.05
1888.....	.51	.14	.05	.05	.....	.05	.....	.....	.....	.05	.14	.....	.05
1889.....	1.23	.09	.09	.14	.14	.05	0.05	0.05	.....	.....	.09	.....	.55
1890.....	18.31	10.96	2.90	1.43	.94	.40	.36	.22	.04	.18	.22	.27	.40
1891.....	23.74	.39	.39	1.00	3.87	4.65	1.57	.52	.52	.52	.22	.26	10.08
1892.....	41.06	24.33	7.64	3.02	1.83	1.10	.72	.51	.17	.21	.38	.68	.47
1893.....	12.27	.58	.70	1.20	2.57	2.07	.46	.17	.12	.04	.....	.46	3.90
1894.....	14.97	7.41	3.16	1.38	1.69	.40	.20	.16	.08	.16	.20	.16	.36
1895.....	18.10	.79	4.50	6.97	3.29	1.11	.36	.24	.08	.08	.04	.24	.36
1896.....	5.81	.93	.62	1.16	1.05	.46	.39	.15	.12	.04	.27	.19	.43
1897.....	14.40	.83	2.42	5.68	2.50	1.02	.27	.15	.23	.15	.27	.27	.61
1898.....	8.56	.59	.59	1.56	1.30	1.48	.37	.11	.22	.07	.19	.26	1.82
1899.....	20.72	9.34	5.81	2.18	1.05	.51	.29	.07	.04	.07	.33	.18	.84
1900.....	25.27	1.21	1.50	9.20	9.23	1.85	.68	.21	.07	.11	.11	.32	.78
1901.....	18.94	4.32	6.36	4.08	1.51	.84	.46	.14	.04	.21	.18	.25	.77
1902.....	5.89	.59	.87	.90	.69	.73	.24	.21	.14	.03	.24	.45	.82
1903.....	12.65	1.57	3.08	3.66	1.61	.82	.38	.14	.10	.03	.21	.34	.70
1904.....	10.26	1.45	2.06	2.80	1.38	.78	.27	.20	.07	.10	.17	.34	.64
1905.....	14.69	2.75	4.58	3.48	1.76	.86	.30	.07	.07	.03	.03	.20	.56
1906.....	6.57	1.13	1.07	1.29	.78	.36	.06	.19	.13	.06	.16	.16	1.17
1907.....	16.13	3.61	3.48	2.28	1.04	.70	.22	.03	.03	.03	.19	.54	3.99
1908.....	10.42	4.48	2.10	1.51	.86	.31	.12	.06	.03	.19	.15	.22	.37
1909.....	7.16	.76	1.93	2.30	.88	.36	.24	.03	.....	.03	.15	.21	.27
1910.....	7.40	1.39	1.01	1.75	1.51	.53	.09	.09	.....	.03	.21	.35	.44
1911.....	4.63	.87	.96	.99	.79	.41	.03	.09	.....	.03	.12	.06	.49
1912.....	6.93	1.46	1.35	1.06	.60	.26	.20	.17	.09	.09	.26	.17	1.23
1913.....	5.75	2.00	.76	.85	.51	.34	.14	.....	.17	.14	.20	.25	.39
1914.....	3.58	.75	.39	.75	.64	.36	.14	.06	.....	.06	.03	.17	.25
1915.....	6.34	.79	.60	.98	1.88	.49	.16	.08	.05	.08	.11	.22	.87
1916.....	14.50	6.32	3.04	1.67	.75	.56	.32	.16	.13	.05	.16	.43	.89

Compiled from number of deaths as given in Registration Reports, State of Massachusetts, 1887–1916, except data for 1912, which are taken from Mortality Statistics, Bureau of the Census.

Chart 1 shows clearly the effect of the epidemic of 1889–1892, developing in three distinct phases; the first culminating in January 1890, the second in April and May 1891, and the third in January 1892. It is noted that the mortality was higher in 1891 than in 1890, still higher in 1892; and that in 1893, although no distinct epidemic occurred, the pneumonia mortality for the year was still higher than in 1892. This corresponds to the experience in England according to Parsons,[1] and apparently represents the general experience in other countries, with some differences in chronology and relative severity of the several phases of the epidemic.

As comparable statistics for Massachusetts in 1917 and 1918 are not now at hand, it is necessary to turn to other sources for the record of these years. The Bureau of the Census has very kindly furnished to the writer, from tables prepared for publication in the 1917 Mortality Statistics, the number of deaths by months during 1917 from pneumonia and influenza in certain registration States,

[1] Parsons, H. Franklin. A Further Report on the Influenza Epidemics of 1889–90, 1891 and 1891–92. Local Govt. Board. London, 1893.

and cities of over 100,000 population, thus continuing through that year the records of monthly mortality available from published Mortality Statistics from 1910 to 1916, inclusive; and has also furnished records of deaths in certain of these States and cities by months during 1918. The latter figures were compiled and submitted by State and local registrars in compliance with a special request from the Director of the Census. They are merely provisional and the Census Bureau in no way vouches for their accuracy; but they are believed to be sufficiently exact for present purposes.

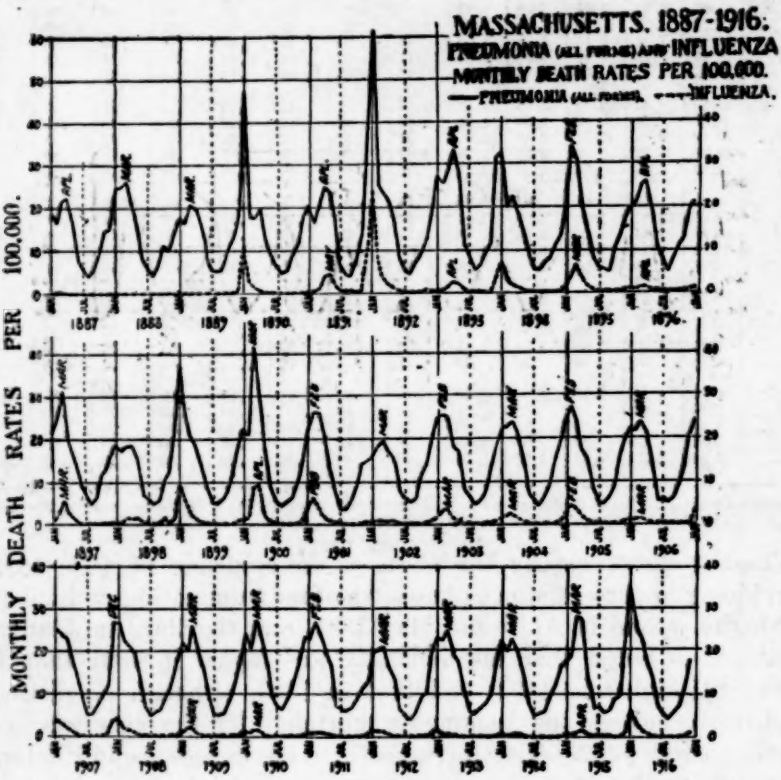

CHART 1.

Owing to the limitations of space the statistics of only three cities, New York, Cleveland, and San Francisco, are presented here. These are, however, fairly representative of the whole group of cities and States for which records are at hand. As may be seen from Table II and Chart 2 the mortality from influenza and pneumonia in these cities was fairly regular from 1910 to 1915, as was the case in Massachusetts (See Chart 1) and generally throughout the registration area of the United States.

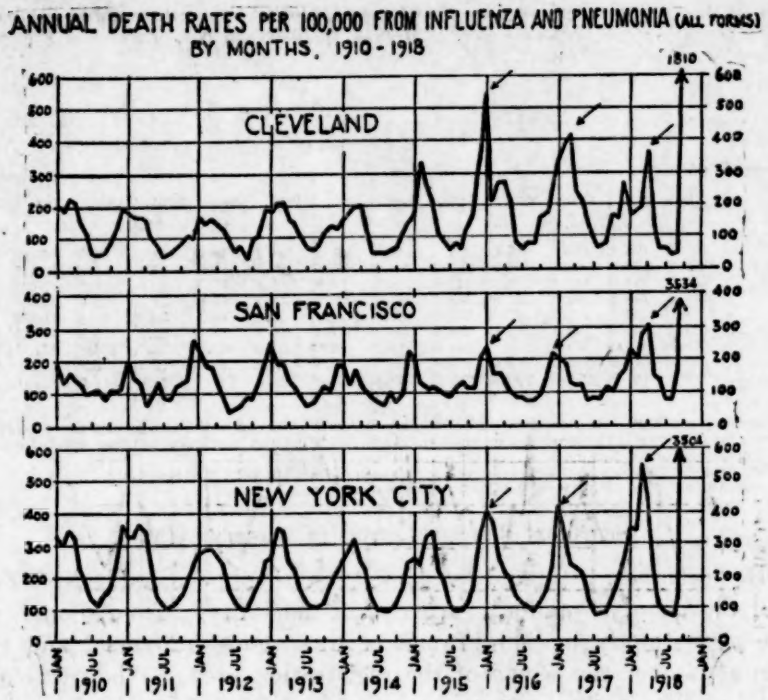

CHART 2.

TABLE II.—*Annual death rates per 100.000 of population from influenza and pneumonia (all forms) by months for the years 1910-1918, inclusive, in New York, San Francisco, and Cleveland.*

NEW YORK CITY.

Years.	Total.	Months.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1910....	229.3	327.8	300.2	343.3	303.5	225.4	162.1	125.5	108.0	126.9	154.7	211.6	365.9
1911....	217.7	321.3	325.5	359.0	338.7	237.2	137.2	115.8	97.2	107.6	145.0	195.0	240.8
1912....	198.6	266.5	294.5	287.9	254.6	238.3	153.5	112.3	99.0	94.9	157.8	178.5	251.6
1913....	199.7	265.0	353.0	342.2	242.7	225.1	158.9	113.5	101.9	100.6	118.4	172.9	213.3
1914....	184.3	247.3	293.0	319.4	241.8	211.1	131.6	92.5	86.1	88.1	110.0	162.9	234.3
1915....	202.7	253.7	232.2	325.4	344.5	212.1	172.0	103.2	89.2	90.8	120.4	167.1	324.4
1916....	189.7	402.5	261.7	252.0	210.9	194.6	133.1	113.7	100.5	87.7	116.4	154.0	242.1
1917....	191.9	417.9	316.3	237.3	221.2	202.4	122.8	72.6	78.4	89.5	127.6	185.5	237.7
1918....	636.4	348.4	339.0	548.0	432.1	201.4	105.4	81.3	71.8	3,516.0	351.6	1,259.6	549.8

SAN FRANCISCO.

1910....	128.6	199.9	134.0	168.9	148.2	132.3	101.6	109.8	112.6	87.3	118.2	110.5	118.2
1911....	135.7	207.3	150.0	135.6	68.6	91.2	150.0	88.5	83.0	135.0	132.7	144.0	270.9
1912....	126.0	236.3	191.6	182.0	131.9	83.9	47.7	51.6	67.9	92.6	84.2	137.5	198.3
1913....	139.6	261.7	192.1	194.9	143.5	122.8	91.0	66.8	72.1	99.3	125.5	110.4	194.9
1914....	122.6	191.7	130.8	178.5	132.9	107.6	84.1	78.8	63.0	103.1	70.9	97.7	231.0
1915....	133.2	214.6	137.4	118.8	125.4	113.6	101.4	90.4	111.0	138.7	116.2	117.4	211.8
1916....	133.2	243.9	165.6	162.6	144.3	101.6	84.0	88.9	71.1	76.1	88.9	144.3	221.0
1917....	127.5	210.0	185.4	130.0	121.4	125.0	72.2	80.0	77.5	118.8	100.0	144.6	167.5
1918....	713.0	231.3	204.3	278.1	310.2	152.6	139.8	78.7	73.8	117.0	3,534.0	2,069.8	1,331.0

TABLE II.—*Annual death rates per 100,000 of population from influenza and pneumonia (all forms) by months for the years 1910–1918, inclusive, in New York, San Francisco, and Cleveland*—Continued.

CLEVELAND.

Years.	Total.	Months.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1910....	136.3	198.3	180.0	223.0	213.5	148.3	107.9	54.2	48.2	51.8	85.6	138.0	190.0
1911....	106.5	174.3	165.9	164.1	155.0	103.4	77.5	40.5	50.6	67.1	81.0	109.0	93.2
1912....	114.6	163.6	141.2	159.7	142.7	126.2	91.7	55.2	75.0	30.6	88.8	110.1	185.4
1913....	131.9	179.8	205.1	217.5	152.5	147.4	107.5	68.1	60.6	74.3	115.3	130.9	128.6
1914....	117.2	160.1	175.2	197.0	201.8	139.9	53.3	51.6	46.3	59.0	66.4	116.0	143.7
1915....	162.7	166.5	333.1	252.6	201.8	109.3	77.4	55.5	78.8	59.2	121.8	170.2	336.8
1916....	198.5	545.0	209.2	263.8	266.9	211.2	86.6	57.6	82.1	75.7	153.6	175.0	242.9
1917....	210.9	344.0	386.0	415.0	233.8	208.0	145.8	90.2	66.4	72.1	160.0	152.9	267.0
1918....	548.0	161.3	178.5	190.4	366.3	142.6	60.0	62.5	43.5	48.0	1,812.0	2,135.0	1,376.0

Data for years 1910–1916 compiled from Mortality Statistics, Bureau of the Census, for those years.
Data for 1917 from tables prepared for publication in 1917 Mortality Statistics; advance sheets furnished by the Bureau of the Census.
Data for 1918 from special reports rendered to Director of the Census by city registrars.
Populations used are Bureau of the Census mid-year estimates.

Significant Rise in Mortality in December, 1915.

In December, 1915, and January, 1916, there occurred in New York and Cleveland a sudden sharp rise in mortality. This, though not shown distinctly in San Francisco, was almost universal and synchronous over the whole of the registration area. While this may have no direct significance in relation to the 1918 pandemic, it is at least of interest as indicating the operation of some definite and widespread factor and suggesting in this group of diseases an epidemic tendency which is perahaps not sufficiently appreciated. In January, 1916, influenza was reported to be epidemic in 22 States, including all sections of the United States (see Public Health Reports, Jan. 7, 1916). As this epidemic was of mild type it attracted but little attention at the time and has generally been forgotten.

Another Sharp and General Rise in Mortality in the Spring of 1918.

In the spring of 1918 there was another sharp and general rise in mortality from these diseases, clearly evident in Chart 2. In the larger cities on the Atlantic seaboard this increase occurred generally during January, February, and March, when pneumonia mortality normally reaches its maximum, and the increase was not so evident in all these cities as it was in New York City. In the rest of the country, especially in the central and western States, the increase occurred in April, a month during which pneumonia mortality is generally on the decline; and was sufficient to constitute an unmistakable departure from the normal. The increased mortality rate extended quite generally into May and in some areas still longer.

This occurrence has, I believe, a definite significance in relation to a coincident prevalence of influenza, and to the subsequent development of the influenza pandemic. Although there is no definite record

of a generalized epidemic of influenza in the United States in the spring of 1918, definite local outbreaks were observed at that time. For example, Vaughan and Palmer [1] have described a mild epidemic prevailing in the Oglethorpe camps in March. The Commissioner of Health of Chicago [2] states, in his special report on the autumn epidemic in Chicago, that in March, 1918, distinct epidemics resembling influenza were observed in certain groups in that city. Stanley [3] in a recent publication describes three epidemics of influenza occurring in April, October, and November, 1918, respectively, in San Quentin prison, California. These three epidemics were quite similar and that of April apparently developed from a newly received inmate, presumably infected in Los Angeles, indicating the presence of the infection there at that time.

Opie, Freeman, and others of the Army Commission studying pneumonia at Camp Funston, [4] found that recurrent outbreaks of pneumonia observed there in March, April, and May, 1918, were definitely associated with coincident epidemics of a mild type of influenza.

The rise in mortality from this group of etiologically heterogeneous diseases in the spring of 1918 is so sudden, so marked, and so general throughout the United States as to point very clearly to the operation of a single definite and specific cause, something largely independent of meteorologic and other local conditions. The observed occurrence of local epidemics of influenza at that time in widely scattered localities, the intimate association established at Camp Funston between the epidemic of influnza and pneumonia, and the subsequent development of the influenza pandemic, all indicate that the increased pneumonia mortality of March and April, 1918, was the consequence of a beginning and largely unnoticed epidemic of influenza, the beginning in this country of the great pandemic which developed in the autumn.

Mild Epidemics of Influenza in Europe in April and May, 1918.

From various localities in western Europe, mild epidemics of influenza were reported in April and May, 1918; and perhaps there may be earlier reports. During June and July extensive epidemics were reported from Great Britain, various parts of Continental Europe,

[1] Vaughan, Col. Victor C., and Palmer, Capt. Geo. T. The Communicable Diseases in the National Guard and the National Army of the United States During the Six Months from Sept. 29, 1917, to Mar. 29, 1918. Military Surgeon, Vol. XLIII, No. 4, October, 1918.

[2] Robertson, John Dill. A Report on an Epidemic of Influenza in the City of Chicago in the Fall of 1918. Ed. Series No. 15, Dept. of Health, City of Chicago, 1918.

[3] Stanley, L. L. Influenza at San Quentin Prison, California. Public Health Reports, vol. 34, No. 19, May 9, 1919.

[4] Opie, Eugene L., Freeman, Allen W., Blake, Francis G., Small, Jas. C., and Rivers, Thomas M. Pneumonia at Camp Funston; Report to the Surgeon General, Journal Am. Med. Ass'n, vol. 72, No. 2, Jan. 11, 1919.

China, India, the Philippine Islands, and Brazil, with marked effect on general mortality rates in such of these countries for which records are available.

Course of the 1918 Epidemic.

The course of the epidemic in England and Wales, and in the United States, respectively, is illustrated by Chart 3, which shows the annual death rates from all causes by weeks in 96 great towns of England and Wales[1] with an aggregate population (1917) of 16,577,344 and in 45 large American cities[2] aggregating about 22,950,000 population (1918).

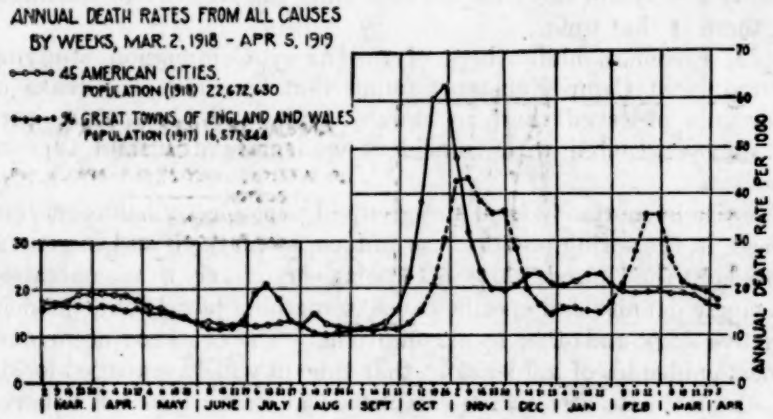

CHART 3.

In the British cities the epidemic has so far manifested three distinct waves—the first and slightest in point of mortality occurring in June and July, the second and most severe in November, the third in February and March. Data which need not be cited here in detail indicate that the course of the epidemic in western Europe generally was similar. In cities of India the sequence was similar but the mortality far greater. In the United States the epidemic developed more largely in a single wave during September, October, and November. If, however, the epidemic already mentioned as occurring in the spring be considered the first phase and the explosive outbreak of the autumn the second, a third phase or recrudescence is quite evident in many areas, though not shown distinctly in Chart 3, in which are combined a number of widely separated cities whose curves overlap. In general, this winter recrudescence was less marked in those cities which suffered most severely in the autumn epidemic.

[1] Weekly Return of Births and Deaths Registered in London and Ninety-five other Great Towns of England and Wales, London.

[2] Weekly Health Index, Bureau of the Census, Washington, D. C.

The course of the epidemic in the United States since September is already well known and need not be discussed here in detail. The prevalence of a serious epidemic in the civilian population was first recognized in and around Boston about the first of September. Within about two weeks the epidemic was general in cities on the Atlantic seaboard, developing a little later among the cities farther west. Rural districts were usually attacked somewhat later than large cities in the same sections. The sequence of the epidemic in three cities—Boston, Washington, and San Francisco—is shown in Chart 4. The interval between the peaks of the epidemic in Boston and San Francisco is four weeks, which is approximately the maximum difference between any two large cities in this phase of the epidemic.

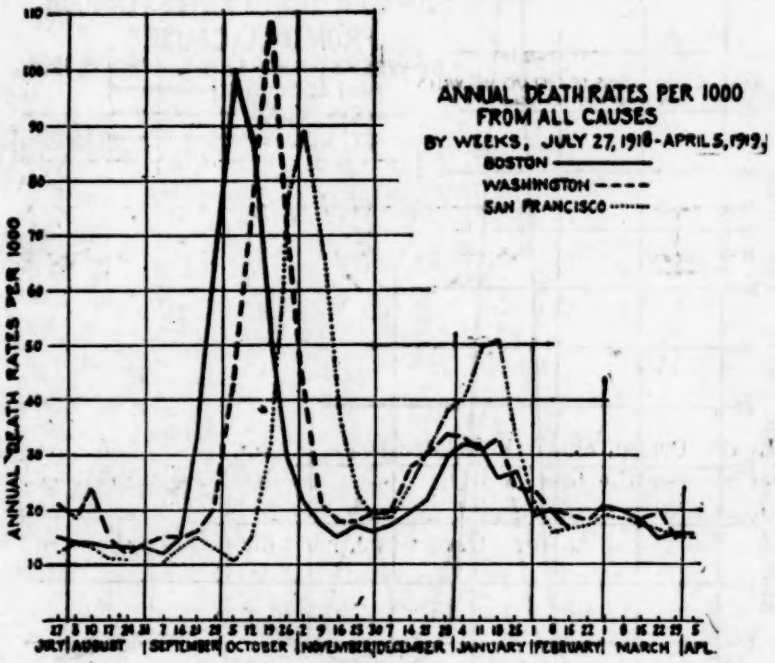

CHART 4.

The curves of mortality differed widely in different cities, as illustrated in Chart 5, showing in Philadelphia a very explosive and abrupt curve, observed more frequently among cities on the eastern seaboard; in New York a less explosive curve, with a more prolonged high mortality rate, as observed more commonly in middle western cities, often with a more pronounced recrudescence; in St. Louis a still more gradual curve, declining only slightly after the first wave, and with a severe recrudescence, curves of this general character being more common in the Middle West.

Total Number of Deaths Among the Civil Population.

Based on incomplete statistics, which represent, however, all the main geographic divisions of the country, including both urban and rural populations, the deaths in the civil population of this country directly attributable to the epidemic are estimated at not less than

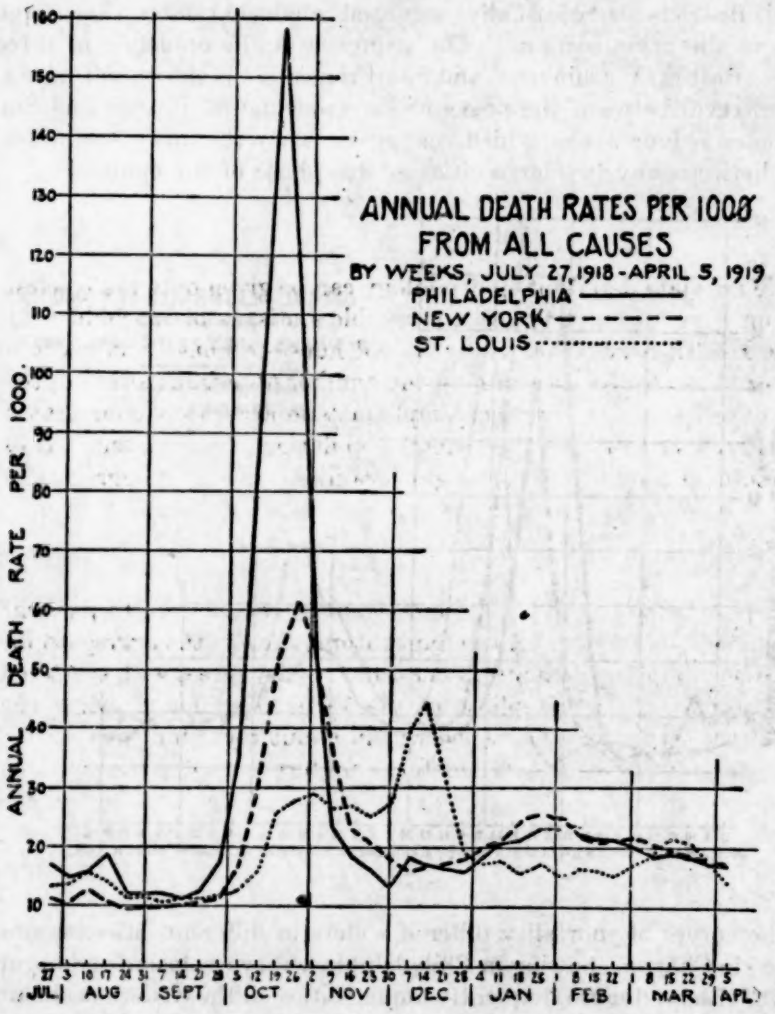

CHART 5.

450,000, or more than 4 per thousand. This rate exceeds even a liberal estimate of the net excess mortality rate in Massachusetts during the four years, 1890–1893, following the influenza outbreak in 1889–90.

Difference in Mortality in Various Geographic Groups.

Classifying the 45 cities of the Weekly Health Index into three broad geographic groups there is a noticeable difference in mortality. In the cities east of the line of the Appalachians the excess mortality from pneumonia and influenza during the weeks ended September 14, 1918, to March 1, 1919,[1] was approximately 5.6 per 1,000; in cities between the Rocky Mountains and the Appalachians 4.35; and in those of the Pacific coast 5.55 per 1,000.

Notwithstanding this general geographic relation, there are notably wide differences in the mortality rates of individual cities in the same section, even between cities close together, differences which are not as yet explained on the basis of climate, density of population, character of preventive measures exercised, or any other determined environmental factor.

More intimate details of epidemiology can be given only the briefest mention here. In order to secure reliable statistics of morbidity the Public Health Service has made special house-to-house surveys in a number of localities,[2] ascertaining the number of persons affected, the dates of onset, and a few other simple facts in accurately enumerated groups representative of the general population. Partial analysis of the results of these surveys in eight localities,[3] giving an aggregate of 112,958 persons canvassed, shows the following as the chief facts of interest:

Results of House to House Surveys.

The percentage of the population attacked varied from 15 per cent in Louisville to 53.3 per cent in San Antonio, Texas, the aggregate for the whole group being about 28 per cent.[4] This agrees with scattered observations in the first phase of the 1889–90 epidemic, when the attack rate seems to have varied within about these limits.

The case incidence was found to be uniformly highest in children from 5 to 14 years old, and progressively lower in each higher age group. It was slightly higher in females than in males of corresponding age; usually higher in the white than the colored population.

The ratio of pneumonia cases to total population varied from 5.3 cases per 1,000 in Spartanburg, S. C., to 24.6 per 1,000 in the smaller towns of Maryland. The pneumonia rate showed little correlation with the influenza attack rate.

The ratio of deaths to population varied from 1.9 per 1,000 in Spartanburg to 6.8 in Maryland towns. The death rate was by no

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[1] United States Census Bureau, Weekly Health Index, Mar. 1, 1919. "Summary, Influenza Epidemic."

[2] For a description of methods and more detailed statistics of certain localities see Public Health Reports. Volume 34, No. 11, pp. 491 to 504.

[3] Data from surveys of population groups as follows: New London, Conn., 7,993; Baltimore, Md. 33,361; certain smaller towns and rural districts in Maryland, 12,669: Spartanburg, S. C., 5,257; Louisville, Ky., 12,602; Little Rock, Ark., 9,920; San Antonio, Tex.,12,534; San Francisco, Calif., 18,682.

[4] The surveys were made mostly during December, after the first wave of the epidemic had subsided, but before the second wave. Later figures would add somewhat to the incidence.

means parallel to the influenza attack rate, but was correlated closely with the pneumonia rate. In other words, the case fatality of pneumonia tended to be fairly constant, around 30 per cent, except in San Antonio, where it was only 18.5 per cent. The death rate was notably high in children under one year old, in adults from 20 to 40, and in persons over 60; higher in males than in females of comparable ages; higher in the white than in the colored.

The case fatality was likewise higher in these age groups, under one year, 20 to 40, and over 60 years; and it is this fact, rather than the incidence rates, which determines the death rates in different age groups.

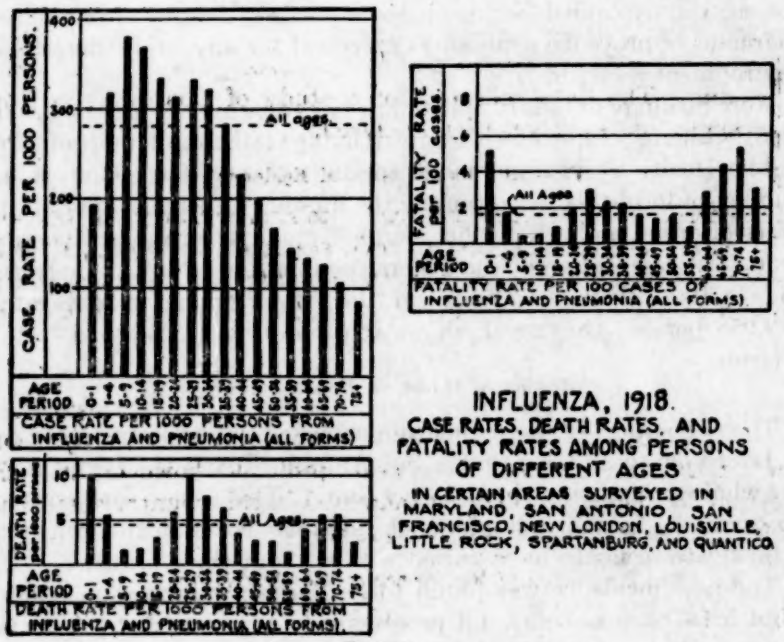

CHART 6.

Chart 6, shows the attack rates, death rates and case fatality rates in various age groups.

The Important Question of Immunity.

Concerning the important question of the immunity conferred by an attack of influenza, the evidence is not conclusive, chiefly because of the uncertain differentiation between influenza and other infections. Parsons, from his study of the last epidemic,[1] inclines to the view that an attack of influenza in the earlier years of the epidemic conferred a considerable but not absolute immunity in the later outbreaks.

[1] Loc. cit.

In Baltimore, where our first canvass of 33,776 people was made between November 20 and December 11, 1918, a second canvass of the same population was made in January to determine the extent of the recrudescence reported in December. Among 32,600 people included in this canvass, 724 cases of influenza were found to have occurred since the previous survey. Of this number, 121 cases were reported as second attacks, but on investigation through the attending physicians or by a medical officer, the clinical diagnosis of both attacks as influenza was confirmed in only 26 cases, or 0.37 per cent of the total, and even in these cases the diagnosis is necessarily uncertain. Considering that 23 per cent of the population had had influenza prior to December 11, the proportion of second attacks should have been much greater if no immunity had been acquired. A second canvass in San Francisco gave generally similar results. The data collected for a study of this question from other angles have not yet been analyzed.

General Characteristics of Epidemic.

In general this epidemic has been quite similar to that of 1889–90 in its early development, first in mild scattered outbreaks, later in a severe world-wide epidemic; in the rapidity of its spread and in its high case incidence. It has been notably different in a much higher frequency of pneumonia and consequently much higher mortality, especially among young adults.

Such evidence as has been collected confirms the conclusion previously reached that the infection is transmitted directly by "contact" in the broad sense. It appears probable, however, that the infection was already widely disseminated in this country some time before a serious epidemic was recognized.

Probability of Recurrence in the Near Future.

The question of most practical and immediate interest is the probability of recurrence in the near future. Recurrences are characteristic of influenza epidemics; and the history of the last pandemic and previous ones would seem to point to the conclusion that this one has not yet run its full course. On the other hand this epidemic has already shown three more or less distinct phases and has been more severe, at least in mortality, than the three-year epidemic of 1889–92, facts which may justify the hope, though not the conclusion, that it has run its course already.

It seems probable, however, that we may expect at least local recurrences in the near future, with an increase over the normal mortality from pneumonia for perhaps several years; and certainly we should be, as far as possible, prepared to meet them by previous organization of forces and measures for attempted prevention, treatment, and scientific investigation.

Future Study and Control.

As regards preventive measures, the efficacy of those carried out in recent months is not proved, and we can only continue to follow the apparently sound principles already applied. It seems hardly logical to expect that any measure short of effective specific immunization will afford lasting protection to the general population; but we may perhaps hope to delay the spread of infection, thus affording better facilities for treatment of the sick, and this is an achievement well worth while.

With reference to scientific investigations, these should not be conditioned on recurrence of the epidemic. Now is the time to inaugurate comprehensive laboratory and field investigations of influenza and pneumonia, to be continued not for a few months, but for a series of years, since a knowledge of influenza during the intervals between epidemics is essential to the understanding of epidemics. In this connection one of the most essential requisites for a better understanding of the disease is better differential diagnosis of endemic influenza with more careful observation and recording of the relatively mild indefinitely diagnosed epidemics of supposed influenza which are noted from time to time in the intervals between definite epidemics. Even in the absence of a definite diagnosis of individual cases, much would be added to the history of influenza by describing such outbreaks more fully and making them matters of more general record.

A RECENT PAMPHLET ON CANCER.

In response to repeated requests the United States Public Health Service has just issued a popular bulletin entitled "Cancer: Facts Which Every Adult Should Know." This 32-page, pocket-size pamphlet, constituting No. 6 of the "Keep Well Series" published by the United States Public Health Service, was prepared in cooperation with the foremost American authorities on cancer, and may therefore be accepted as representing the best scientific information on this important subject.

The bulletin gives in simple language the main facts regarding the prevalence of cancer, discusses three common causes of needless worry, tells how cancer develops, and describes the causative factors and the chief danger signals of the disease. Special attention is devoted to cancers of the breast, uterus, and digestive organs, and to the various forms of external cancer. An emphatic warning is given regarding alleged "cancer cures," and against quacks and patent nostrums. The use of radium and X-rays is discussed. Following is the summary which concludes the bulletin:

1. Cancer at the beginning is usually painless and its onset for this reason is especially insidious and dangerous.

2. Cancer is at first a small local growth which can be safely and easily removed by competent surgical or other treatment.

3. Cancer is not a constitutional or "blood" disease.

4. Cancer is not contagious.

5. Cancer is, practically speaking, not hereditary.

6. Every lump in the breast should be examined by a competent doctor.

7. Persistent abnormal discharge or bleeding is suspicious.

8. Sores, cracks, lacerations, lumps, and ulcers which do not heal, and warts, moles, or birthmarks which change in size, color, or appearance, may turn into cancer unless treated and cured.

9. Probably 60 per cent of cancers of the rectum are first regarded as piles. Insist on a thorough medical examination.

10. Continued irritation in some form is the usual cause of cancer. It rarely results from a sudden injury.

11. A doctor who treats a suspicious symptom without making a thorough examination does not know his business.

THE NOTIFIABLE DISEASES.

PREVALENCE DURING 1918 IN STATES.

ANTHRAX, CEREBROSPINAL MENINGITIS, DENGUE, DIPHTHERIA, INFLUENZA, MALARIA MEASLES, PNEUMONIA (ALL FORMS), POLIOMYELITIS, RABIES IN ANIMALS, RABIES IN MAN, ROCKY MOUNTAIN SPOTTED FEVER, SCARLET FEVER, SEPTIC SORE THROAT SMALLPOX, TUBERCULOSIS (PULMONARY AND ALL FORMS), TYPHOID FEVER, AND TYPHUS FEVER—CASES AND DEATHS REPORTED, CASE RATES, FATALITY AND MORTALITY RATES, 1918; AVERAGE NUMBER OF CASES REPORTED DURING RECENT YEARS (1913 TO 1917) AND CASE RATES.

The tables which appear on the following pages have been compiled from data furnished by the health officers of the several States in response to requests from the United States Public Health Service.

The following table shows States for which morbidity and mortality summaries were received:

Morbidity.	Mortality.	Morbidity.	Mortality.
Alabama.	Alabama.		Missouri.[1]
Arizona.	Arizona.	Montana.	
Arkansas.	Arkansas.	Nebraska.	Nebraska.
California.	California.	New Jersey.	New Jersey.
Colorado.		New York.	New York.
Connecticut.	Connecticut.	North Carolina.	
	Delaware.	Ohio.	Ohio.
District of Columbia.	District of Columbia.		Oklahoma.
Florida.	Florida.	Oregon.	Oregon.
	Hawaii.	Pennsylvania.	Pennsylvania.
Illinois.	Illinois.	Porto Rico.	Porto Rico.
Indiana.	Indiana.	Rhode Island.	Rhode Island.
Iowa.	Iowa.	South Carolina.	South Carolina.
Kansas.	Kansas	South Dakota.	South Dakota.
	Kentucky.	Texas.	Texas.
Louisiana.	Louisiana.	Utah.	Utah.
Maine.	Maine.	Vermont.	Vermont.
Maryland.	Maryland.	Virginia.	
Massachusetts.	Massachusetts.	Washington.	Washington.
Michigan.	Michigan.	West Virginia.	
Minnesota.	Minnesota.	Wisconsin.	Wisconsin.
Mississippi.	Mississippi.[1]	Wyoming.	Wyoming.

[1] Data not given by months.

The populations used in computing the case rates and death rates were those estimated by the Bureau of the Census as of July 1, 1918, except for the population of Iowa. For this State the population in 1910, as ascertained by the census of that year, was used, as no estimate for 1918 was available.

For most of the diseases four separate tables are given: (1) Averages, (2) Morbidity, (3) Mortality, and (4) Rates. The averages were obtained by adding together the cases reported by months for the years 1913, 1914, 1915, 1916, and 1917 and dividing the sums by 5. Data for the full five years were not available for some of the States. The column headed "Years" shows the years and number of years for which the figures were obtainable. In all instances the averages are for years between 1913 and 1917, inclusive. The averages are given by months for the following diseases: Cerebrospinal meningitis, diphtheria, measles, poliomyelitis, scarlet fever, smallpox, tuberculosis (pulmonary and all forms), and typhoid fever. The total cases of anthrax reported in each State during 1916 and 1917 are included in the rate table for this disease under a different heading.

In the morbidity tables are given the number of cases of communicable diseases reported in the States, by months, except rabies in animals and rabies in man, for which only totals are given. The morbidity for influenza is not complete, as this disease was not made reportable until the epidemic began in the fall of 1918. Neither are the pneumonia reports complete.

The mortality tables show deaths from communicable diseases registered in States by months.

The rate table shows the average cases reported per annum for the years 1913 to 1917, inclusive, where the data were available, and the average case rate per 1,000 inhabitants. This was obtained by using the average population of the years for which cases were reported. It also shows the cases and deaths reported, case rates, and fatality and mortality rates in 1918.

In comparing the figures for 1918 with the averages for preceding years, it should be borne in mind that an increase in the number of cases reported may indicate that there were more cases of the particular disease in the State during 1918, or it may indicate that the cases were better reported by the physicians.

A relatively large number of reported cases of a communicable disease, as indicated by a high case rate (and more especially when accompanied by a relatively small number of deaths, as indicated by a low fatality rate), usually means that the health department of that State is active and that the cases of the disease are being well reported by the practicing physicians. It does not necessarily mean that the disease is more prevalent in that State than in other States. A high fatality rate may mean that the disease was unusually virulent in a State, that the physicians did not treat the disease in that

State with the success usual elsewhere, or that the practicing physicians did not report all of their cases. On the other hand, an unusually low fatality rate may be due to the fact that the disease in the State was unusually mild, that the physicians treated it with unusual success, that the practicing physicians reported their cases satisfactorily, or that the registration of deaths was incomplete, or the assignment of the causes of death inaccurate.

Summaries of reported cases and deaths from communicable diseases similar to the summary here presented have been issued by the United States Public Health Service for the years 1912 to 1917, inclusive (Reprints Nos. 163, 208, 298, 345, 426, and 505). A comparison of these summaries indicates that, while morbidity reports in the United States are far from complete, steady advance is being made in many of the States.

Cases reported and deaths registered in New York City, during the calendar year 1918, from certain diseases, with indicated morbidity, mortality, and fatality rates.

	Cases.	Deaths.
Anthrax:		
January	2	0
February	1	0
March	1	1
April	1	1
May	2	1
June	1	0
July	0	0
August	0	0
September	1	0
October	1	0
November	2	1
December	3	0
Total	15	4
Rate per 1,000 population	.003	.001
Deaths per 100 cases, 26.7		
Cerebrospinal meningitis:		
January	22	11
February	33	28
March	62	46
April	94	33
May	80	36
June	30	16
July	30	17
August	36	17
September	29	19
October	14	14
November	23	8
December	24	17
Total	477	262
Rate per 1,000 population	.091	.050
Deaths per 100 cases, 54.9		
Diphtheria:		
January	1,048	112
February	898	101
March	1,086	138
April	1,249	160
May	1,288	121
June	1,231	106
July	893	80
August	541	52
September	472	45
October	801	120
November	836	90
December	1,112	120
Total	11,455	1,245
Rate per 1,000 population	2.196	.239
Deaths per 100 cases, 10.9		

	Cases.	Deaths.
Influenza:		
January	.....	72
February	.....	52
March	.....	133
April	.....	106
May	.....	36
June	.....	7
July	.....	6
August	.....	5
September	2,131	114
October	110,903	8,384
November	16,766	2,731
December	6,149	916
Total	.....	12,562
Rate per 1,000 population	.....	2.408
Malaria:		
January	0	1
February	1	0
March	1	1
April	3	0
May	8	2
June	14	1
July	10	1
August	5	0
September	4	0
October	5	0
November	4	2
December	0	0
Total	55	8
Rate per 1,000 population	.011	.002
Deaths per 100 cases, 14.5		
Measles:		
January	4,264	85
February	4,477	98
March	6,345	173
April	6,003	161
May	4,536	121
June	1,812	79
July	664	33
August	241	16
September	114	10
October	76	8
November	67	1
December	76	5
Total	28,675	790
Rate per 1,000 population	5.498	1.515
Deaths per 100 cases, 2.8		

Cases reported and deaths registered in New York City, during the calendar year 1918, from certain diseases, with indicated morbidity, mortality, and fatality rates.—Continued.

	Cases.	Deaths.
Poliomyelitis:		
January	3	0
February	3	2
March	8	4
April	10	3
May	1	1
June	13	4
July	26	4
August	33	6
September	24	3
October	9	1
November	2	1
December	2	0
Total	134	29
Rate per 1,000 population	.026	.006
Deaths per 100 cases, 21.6.		
Pneumonia (all forms):		
January	.....	1,472
February	.....	1,304
March	.....	2,206
April	.....	1,747
May	.....	855
June	.....	445
July	.....	354
August	.....	313
September	350	470
October	15,230	7,184
November	4,325	2,669
December	2,757	1,519
Total	.....	20,628
Rate per 1,000 population	.....	3.955
Scarlet fever:		
January	579	30
February	546	22
March	634	16
April	579	26
May	512	25
June	321	20
July	206	13
August	105	5
September	164	1
October	244	8
November	206	4
December	364	7
Total	4,460	177
Rate per 1,000 population	.855	.034
Deaths per 100 cases, 4.0.		
Smallpox:		
January	1	.....
February	3	.....
March	8	.....
April	3	.....
May	3	.....
June	2	.....
July	1	.....
August	0	.....
September	0	.....
October	0	.....
November	0	.....
December	0	.....
Total	21	.....
Rate per 1,000 population	.004	.....

	Cases.	Deaths.
Tuberculosis (pulmonary):		
January	1,538	842
February	1,344	771
March	1,366	1,061
April	1,698	860
May	1,300	743
June	1,759	643
July	873	595
August	1,326	546
September	1,002	546
October	721	826
November	707	711
December	805	635
Total	14,439	8,779
Rate per 1,000 population	2.768	1.683
Number of cases reported for each death registered, 1.6.		
Tuberculosis (all forms):		
January	.....	973
February	.....	884
March	.....	1,198
April	.....	993
May	.....	868
June	.....	765
July	.....	700
August	.....	653
September	.....	632
October	.....	926
November	.....	783
December	.....	724
Total	.....	10,099
Rate per 1,000 population	.....	1.936
Typhoid fever:		
January	30	6
February	28	8
March	35	13
April	53	6
May	51	10
June	164	13
July	170	30
August	265	30
September	209	32
October	125	28
November	52	10
December	56	10
Total	1,238	196
Rate per 1,000 population	.237	.038
Deaths per 100 cases, 15.8.		
Typhus fever:		
January	0	.....
February	0	.....
March	0	.....
April	1	.....
May	3	.....
June	2	.....
July	0	.....
August	1	.....
September	1	.....
October	0	.....
November	0	.....
December	0	.....
Total	8	.....
Rate per 1,000 population	.002	.....

Cases of anthrax reported, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
California	4				1	3	1		6	3	1		19	California.
Florida	1												1	Florida.
Kansas	1												1	Kansas.
Louisiana	1	1	2	0	0	7	1	0	1	0	0	0	13	Louisiana.
Maryland		1											1	Maryland.
Massachusetts	1	5	2	1		3	4	1	3		3		23	Massachusetts.
New Jersey						6	1			1	1	1	10	New Jersey.
New York	3	2	1	3	2	1	1	0	1	1	2	3	20	New York.
Ohio			1						1				2	Ohio.
Pennsylvania	1			2	1	1	2			1	2	1	11	Pennsylvania.
Porto Rico					1			1					2	Porto Rico.
Texas					1		1	1					3	Texas.

Deaths registered as due to anthrax, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
California	1							1	1	1	1		5	California.
Connecticut								1					1	Connecticut.
Florida	1												1	Florida.
Hawaii	1										1		2	Hawaii.
Indiana		1		1			1						3	Indiana.
Iowa								1	2				3	Iowa.
Kansas			1								1		2	Kansas.
Louisiana	1	1				1	1				1		5	Louisiana.
Maine	1												1	Maine.
Massachusetts	1		1				2		1	1		1	7	Massachusetts.
New Jersey						1							1	New Jersey.
New York	1		1	1	1	1		2			1		8	New York.
Ohio			1										1	Ohio.
Pennsylvania	1				1		1	2			2		7	Pennsylvania.
Porto Rico	1				1		1					1	4	Porto Rico.
South Carolina											1		1	South Carolina.
Texas			1	1		1	1						4	Texas.

Anthrax—Cases reported 1916 and 1917; cases reported, deaths registered, and indicated morbidity, mortality, and fatality rates, 1918.

State.	Estimated population, July 1, 1918.	Total cases reported, 1916.	Total cases reported, 1917.	1918					State.
				Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
California	3,119,412	12	23	19	.006	5	.002	26.3	California.
Colorado			4						Colorado.
Connecticut	1,286,268	1	1			1	.001		Connecticut.
Florida	938,877			1	.001	1	.001		Florida.
Hawaii	223,419					2	.009		Hawaii.
Illinois	6,317,734		2			0			Illinois.
Indiana	2,854,167					3	.001		Indiana.
Iowa	2,224,771					3	.001		Iowa.
Kansas	1,874,195	4	2	1		2	.001		Kansas.
Louisiana	1,884,778	4	27	13	.007	5	.003	38.5	Louisiana.
Maine	782,191					1	.001		Maine.
Maryland	1,384,539		1	1	.001	0			Maryland.
Massachusetts	3,832,790	31	54	23	.006	7	.002	30.4	Massachusetts.
Missouri	3,448,498					1			Missouri
New Jersey	3,080,371	7	21	10	.003	1		10.0	New Jersey.
New York	10,646,989	15	32	20	.002	8	.001	40.0	New York.
Ohio	5,273,814	1	3	2		1		50.0	Ohio.
Pennsylvania	8,798,067	31	25	11	.001	7	.001	63.6	Pennsylvania.
Porto Rico	1,247,677			2		4	.003		Porto Rico.
South Carolina	1,660,934					1	.001		South Carolina.
Texas	4,601,279		2	3		4	.001		Texas.
Vermont	356,192		2			0			Vermont.
Wisconsin	2,553,983		2			0			Wisconsin.

Cerebrospinal meningitis—Monthly averages of cases reported during the years for which data are available, 1913–1917.

State.	Years.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Average per year.	State.
Alabama	1913, 1915–1917—4 years	10	11	8	14	10	6	4	2	2	3	3	6	79	Alabama.
Arizona	1914—1 year	1	2	3	0	0	0	0	0	0	0	1	1	8	Arizona.
Arkansas	1917—1 year	2	0	1	0	2	0	2	1	1	0	1	2	12	Arkansas.
California	1913–1917—5 years	8	5	10	7	6	5	9	5	2	5	6	8	76	California.
Connecticut	do	6	9	16	21	13	10	4	4	5	3	2	3	96	Connecticut.
District of Columbia	do	(1)	(1)	2	(1)	2	(1)	(1)	(1)	(1)	(1)	(1)	2	11	District of Columbia.
Hawaii	do	1	1	(1)	(1)	(1)	(1)	1	(1)	(1)	(1)	0	(1)	8	Hawaii.
Illinois	1913, 1914, 1917—3 years	20	14	25	30	31	25	29	21	23	19	18	19	274	Illinois.
Indiana	1914–1917—4 years	8	4	12	10	7	6	2	3	4	3	2	5	66	Indiana.
Iowa	1913, 1914, 1916, 1917—4 years	3	3	4	5	2	1	1	2	1	5	2	3	32	Iowa.
Kansas	1913–1917—5 years	5	6	8	8	7	3	3	2	4	3	4	9	62	Kansas.
Louisiana	1914–1917—4 years	4	6	4	4	1	1	2	(1)	(1)	2	3	8	36	Louisiana.
Maine	1917—1 year	0	2	0	0	0	1	0	0	1	0	1	1	6	Maine.
Maryland	1915–1917—3 years	4	4	8	14	15	11	8	4	3	3	4	8	86	Maryland.
Massachusetts	1913, 1916, 1917—3 years	13	13	19	15	17	23	10	13	13	11	13	15	175	Massachusetts.
Minnesota	1913–1917—5 years	2	9	19	23	16	8	5	3	2	3	2	4	96	Minnesota.
Mississippi	1914–1917—4 years	4	6	6	3	5	2	3	1	4	4	5	6	49	Mississippi.
Montana	1913, 1914, 1916, 1917—4 years	(1)	(1)	(1)	1	1	2	(1)	2	1	1	(1)	(1)	12	Montana.
Nevada	1913, 1915, 1917—3 years	2	1	1	0	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	8	Nevada.
New York	1913–1917—5 years	26	29	39	38	49	44	30	24	27	25	21	24	376	New York.
Ohio	1914–1917—4 years	13	22	38	59	40	25	19	16	11	17	15	17	292	Ohio.
Oregon	1914, 1916–1917—3 years	(1)	(1)	(1)	1	(1)	0	(1)	(1)	(1)	(1)	(1)	(1)	6	Oregon.
Pennsylvania	1916–1917—2 years	17	24	76	116	93	70	26	33	20	20	16	20	531	Pennsylvania.
Porto Rico	1917—1 year	0	0	1	2	0	0	1	0	0	0	1	0	5	Porto Rico.
Rhode Island	1916–1917—2 years	3	2	2	8	5	3	8	2	1	4	2	2	42	Rhode Island.
South Carolina	1913–1917—5 years	2	1	2	2	1	4	1	1	1	1	1	27	44	South Carolina.
South Dakota	1913, 1914, 1917—3 years	0	1	(1)	2	2	1	(1)	1	1	2	0	2	13	South Dakota.
Texas	1915, 1917—2 years	7	9	8	5	5	8	4	2	3	1	2	9	63	Texas.
Vermont	1916–1917—2 years	0	3	(1)	0	(1)	2	(1)	0	0	0	0	0	6	Vermont.
Virginia	1915–1917—3 years	20	17	25	22	14	20	19	12	15	10	10	14	198	Virginia.
Washington	1913–1917—5 years	1	1	1	2	3	2	1	1	1	2	1	2	18	Washington.
West Virginia	1917—1 year	7	6	5	10	2	1	5	1	1	0	2	0	40	West Virginia.
Wisconsin	1913–1917—5 years	10	8	13	11	9	12	6	7	6	7	6	6	101	Wisconsin.
Wyoming	1913, 1914, 1916, 1917—4 years	0	(1)	(1)	1	(1)	0	0	(1)	0	0	(1)	2	6	Wyoming.

[1] Less than one.

Cases of cerebrospinal meningitis reported, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	22	52	34	15	20	9	8	2	12	1	4	9	188	Alabama.
Arkansas	45	55	47	16	7	2	2	1	2	1	13	13	204	Arkansas.
California	27	26	32	29	24	10	18	17	18	11	6	7	225	California.
Colorado	3	1	.....	.....	2	.....	.....	.....	3	.....	.....	.....	9	Colorado.
Connecticut	21	10	12	15	11	11	9	7	5	9	5	3	118	Connecticut.
District of Columbia	37	31	11	8	16	5	1	0	1	4	4	0	118	District of Columbia.
Florida	5	29	14	3	5	.....	6	3	1	3	3	3	75	Florida.
Illinois	48	58	69	62	53	19	26	14	16	8	4	12	389	Illinois.
Indiana	8	16	35	21	19	8	6	4	7	11	1	4	140	Indiana.
Iowa	8	12	9	5	2	3	3	1	1	5	0	1	50	Iowa.
Kansas	32	53	56	23	24	11	3	7	2	4	0	16	231	Kansas.
Louisiana	159	64	48	28	21	18	11	6	4	17	11	7	394	Louisiana.
Maine	0	0	4	0	0	1	0	0	7	0	2	12	26	Maine.
Maryland	18	29	35	43	27	12	17	13	7	22	14	7	244	Maryland.
Massachusetts	21	35	51	67	36	36	25	18	18	31	19	21	378	Massachusetts.
Michigan	11	14	11	8	8	9	9	7	4	8	2	4	95	Michigan.
Minnesota	10	10	13	10	5	6	1	6	3	1	1	2	68	Minnesota.
Mississippi	15	40	25	21	5	3	2	1	1	6	4	2	125	Mississippi.
Montana	3	2	2	2	1	3	3	.....	.....	1	.....	1	18	Montana.
Nebraska	4	4	7	7	.....	.....	.....	.....	1	2	1	.....	26	Nebraska.
New Jersey	22	24	33	47	35	17	20	21	6	18	15	7	265	New Jersey.
New York	43	51	90	127	99	43	40	48	41	17	33	38	670	New York.
North Carolina	18	25	21	8	7	5	7	9	4	5	3	11	123	North Carolina.
Ohio	49	51	57	44	23	21	18	31	14	14	8	12	342	Ohio.
Oregon	0	0	0	2	1	0	1	0	0	0	0	1	5	Oregon.
Pennsylvania	27	42	79	92	95	29	28	31	19	15	21	13	491	Pennsylvania.
Rhode Island	7	7	8	13	11	6	4	1	3	1	2	1	64	Rhode Island.
South Carolina	108	107	82	31	11	6	5	5	.....	2	1	1	359	South Carolina.
South Dakota	3	6	4	5	4	1	4	2	3	4	5	4	45	South Dakota.
Texas	46	65	34	15	4	7	3	4	2	2	2	4	188	Texas.
Vermont	1	.....	2	.....	.....	1	.....	.....	.....	.....	1	.....	5	Vermont.
Virginia	53	38	51	38	28	9	9	12	15	28	13	20	314	Virginia.
Washington	5	8	10	9	10	7	5	1	2	4	.....	7	68	Washington.
West Virginia	3	0	4	3	3	0	1	4	0	2	4	0	24	West Virginia.
Wisconsin	14	14	25	27	26	17	16	10	6	11	4	11	181	Wisconsin.
Wyoming	1	4	1	.....	.....	2	1	.....	1	1	4	.....	15	Wyoming.

Deaths registered as due to cerebrospinal meningitis, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	13	9	18	11	6	5	4	3	0	1	6	6	82	Alabama.
Arizona	3	2	11	7	5	2	2	3	4	3	5	4	51	Arizona.
Arkansas	27	37	27	17	32	8	10	8	3	14	12	30	225	Arkansas.
California	13	19	18	24	12	10	.....	27	17	7	2	11	160	California.
Connecticut	7	5	4	5	7	7	3	2	1	1	.....	2	44	Connecticut.
District of Columbia	4	7	4	6	2	2	.....	.....	.....	2	1	.....	28	District of Columbia.
Florida	7	7	.....	4	2	2	4	1	3	3	2	2	37	Florida.
Hawaii	0	0	0	2	0	2	4	0	0	2	1	0	11	Hawaii.
Illinois	29	16	28	18	14	12	15	8	4	5	4	11	164	Illinois
Indiana	3	3	6	11	4	3	5	4	1	2	1	2	45	Indiana.
Iowa	9	14	7	5	11	2	5	2	2	4	2	6	69	Iowa.
Kansas	14	26	22	15	5	3	9	4	4	12	8	9	131	Kansas.
Kentucky	51	74	70	62	38	45	30	35	26	44	36	25	53[illegible]	Kentucky.
Louisiana	21	19	12	7	4	5	2	3	0	4	2	3	82	Louisiana
Maine	2	1	5	5	.....	2	2	3	2	5	2	1	30	Maine.
Maryland	11	8	17	15	12	7	7	7	1	15	5	3	10[illegible]	Maryland.
Massachusetts	16	23	30	34	20	20	15	8	12	12	14	20	224	Massachusetts.
Michigan	28	30	21	33	36	28	21	12	15	18	11	15	268	Michigan.
Minnesota	2	2	5	2	1	2	2	2	2	1	1	1	23	Minnesota.
Nebraska	4	3	11	8	1	2	2	.....	2	0	0	4	37	Nebraska.
New Jersey	7	4	11	17	11	1	7	4	1	1	1	4	69	New Jersey.
New York	28	41	63	43	65	30	27	25	26	40	22	33	443	New York.
Ohio	13	21	32	21	1[illegible]	16	10	12	11	5	5	4	161	Ohio.
Oklahoma	3	6	6	4	7	1	2	1	0	0	0	1	31	Oklahoma.
Oregon	0	0	0	3	1	2	0	0	1	0	0	1	8	Oregon.
Rhode Island	3	1	4	7	4	7	2	1	3	4	1	1	38	Rhode Island.
South Carolina	33	40	39	22	5	15	10	3	5	20	4	11	207	South Carolina.
South Dakota	2	6	4	5	4	.....	4	2	3	4	5	4	43	South Dakota.
Texas	31	46	27	16	5	8	7	9	2	4	5	4	164	Texas.
Utah	1	2	1	.....	.....	.....	.....	1	1	1	.....	.....	7	Utah.
Vermont	.....	.....	.....	.....	.....	.....	1	.....	.....	1	1	.....	3	Vermont.
Washington	9	4	10	9	11	3	9	1	2	15	3	5	81	Washington.
Wisconsin	31	38	37	42	35	26	23	23	7	13	39	51	365	Wisconsin.
Wyoming	.....	3	1	.....	.....	1	1	.....	1	1	4	.....	12	Wyoming.

Cerebrospinal meningitis—Average number of cases reported per annum and average indicated morbidity rates, 1913–1917; cases reported, deaths registered, and indicated morbidity, mortality, and fatality rates, 1918.

State.	Estimated population July 1, 1918.	Average.			1918					State.
		Years.	Cases reported per annum.	Cases per 1,000 inhabitants.	Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
Alabama	2,395,270	1913, 1915–1917—4 years	79	0.034	188	0.078	82	0.034	43.6	Alabama.
Arizona	272,034	1914—1 year	8	.033			51	.187		Arizona.
Arkansas	1,792,965	1917—1 year	12	.007	204		225	.125		Arkansas.
California	3,119,412	1913–1917—5 years	76	.027	225	.072	160	.051	71.1	California.
Colorado	1,014,581				9	.009				Colorado.
Connecticut	1,286,268	1913–1917—5 years	96	.078	118	.092	44	.034	37.3	Connecticut.
District of Columbia	401,681	do	11	.031	118	.294	28	.070	23.7	District of Columbia.
Florida	938,877				75	.080	37	.039	49.3	Florida.
Hawaii	223,419	1913–1917—5 years	8	.038			11	.049		Hawaii.
Illinois	6,317,734	1913, 1914, 1917—3 years	274	.045	389	.062	164	.026	42.2	Illinois.
Indiana	2,854,167	1914–1917—4 years	66	.024	140	.049	45	.016	32.1	Indiana.
Iowa	2,224,771	1913, 1914, 1916, 1917—4 years	32	.014	50		69	.031		Iowa.
Kansas	1,874,195	1913–1917—5 years	62	.034	231	.123	131	.070	56.7	Kansas.
Kentucky	2,408,547						536	.223		Kentucky.
Louisiana	1,884,778	1914–1917—4 years	36	.020	394	.209	82	.044	20.8	Louisiana.
Maine	782,191	1917—1 year	6	.008	26		30	.038		Maine.
Maryland	1,384,539	1915–1917—3 years	86	.063	244	.176	108	.078	44.3	Maryland.
Massachusetts	3,832,790	1913, 1916, 1917—3 years	175	.048	378	.099	224	.058	59.3	Massachusetts.
Michigan	3,133,678				95		268	.086		Michigan.
Minnesota	2,345,287	1913–1917—5 years	96	.043	68	.029	23	.010	33.8	Minnesota.
Mississippi	2,001,466	1914–1917—4 years	49	.025	125	.062	6	.003	4.8	Mississippi.
Missouri	3,448,498						107	.031		Missouri.
Montana	486,376	1913, 1914, 1916, 1917—4 years	12	.027	18	.037				Montana.
Nebraska	1,296,877				26		37	.029		Nebraska.
Nevada	114,742	1913, 1915, 1917—3 years	8	.078						Nevada.
New Jersey	3,080,371				265	.086	69	.022	26.0	New Jersey.
New York	10,646,989	1913–1917—5 years	376	.037	670	.063	443	.042	66.1	New York.
North Carolina	2,468,025				123	.050				North Carolina.
Ohio	5,273,814	1914–1917—4 years	292	.057	342	.065	161	.031	47.1	Ohio.
Oklahoma	2,377,629						31	.013		Oklahoma.
Oregon	888,243	1914, 1916, 1917—3 years	6	.007	5		8	.009		Oregon.
Pennsylvania	8,798,067	1916, 1917—2 years	531	.062	491					Pennsylvania.
Porto Rico	1,247,677	1917—1 year	5	.004						Porto Rico.
Rhode Island	637,415	1916, 1917—2 years	42	.068	64	.100	38	.060	59.4	Rhode Island.
South Carolina	1,660,934	1913–1917—5 years	44	.027	359	.216	207	.125	57.7	South Carolina.

South Dakota	735,434	1913, 1914, 1917—3 years	13	.019	45	.061	43	.058	95.6	South Dakota.
Texas	4,601,279	1915, 1917—2 years	63	.014	188	.041	164	.036	87.2	Texas.
Utah	453,648						7	.015		Utah.
Vermont	366,192	1916, 1917—2 years	6	.016	5	.014	3	.008	60.0	Vermont.
Virginia	2,234,030	1915-1917—3 years	198	.090	314	.141				Virginia.
Washington	1,660,578	1913-1917—5 years	18	.012	68		81	.049		Washington.
West Virginia	1,439,165	1917—1 year	40	.028	24	.017				West Virginia.
Wisconsin	2,553,983	1913-1917—5 years	101	.041	181		365	.143		Wisconsin.
Wyoming	190,380	1913, 1914, 1916, 1917—4 years	6	.034	15	.078	12	.063	80.0	Wyoming.

Dengue—Cases reported and deaths registered, 1918.

	Cases.	Deaths.		Cases.	Deaths.		Cases.	Deaths.
California:			Louisiana:			Texas:		
October	1	0	February	1	0	March	13	
Florida:			May	72	0	April		1
February	8	0	June	1	0	June	3	
September	1	0	Porto Rico:			September	99	
October	2	0	July	145		October	9	1
December	1	0	August	200		November	3	2

Diphtheria.—Monthly averages of cases reported during the years for which data are available, 1913–1917.

State.	Years.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Average per year.	State.
Alabama	1913, 1915–1917—4 years	41	31	35	25	26	14	20	60	123	124	91	57	647	Alabama.
Arizona	1914, 1916—2 years	2	3	4	4	4	2	3	1	1	5	9	2	40	Arizona.
Arkansas	1917—1 year	29	10	13	7	6	4	4	14	40	53	33	75	288	Arkansas.
California	1913–1917—5 years	272	239	256	191	240	200	133	142	142	259	334	323	2,731	California.
Colorado	1914, 1916, 1917—3 years	39	37	54	48	41	31	30	36	49	66	65	70	566	Colorado.
Connecticut	1913–1917—5 years	264	199	181	165	164	152	128	96	151	276	301	266	2,343	Connecticut.
District of Columbia	do	67	40	55	45	37	20	18	16	36	121	128	98	681	District of Columbia.
Hawaii	do	16	15	48	15	9	10	7	11	15	10	9	13	178	Hawaii.
Idaho	1913—1 year	2	6	1	3	0	5	4	4	1	0	2	1	29	Idaho.
Illinois	1913, 1914, 1917—3 years	1,366	933	1,117	903	932	828	715	575	889	1,123	1,579	1,287	12,247	Illinois.
Indiana	1913–1917—5 years	357	255	189	153	138	106	116	166	330	652	623	443	3,528	Indiana.
Iowa	1913, 1914, 1916, 1917—4 years	75	69	66	56	49	44	34	28	44	103	96	88	752	Iowa.
Kansas	1913–1917—5 years	130	90	85	65	63	52	47	56	86	303	354	233	1,564	Kansas.
Louisiana	1914–1917—4 years	113	78	71	53	38	32	33	82	155	186	126	87	1,054	Louisiana.
Maine	1916–1917—2 years	31	20	15	19	19	12	19	21	25	48	63	62	354	Maine.
Maryland	1915–1917—3 years	235	175	163	89	96	68	72	89	167	283	319	251	2,007	Maryland.
Massachusetts	1913, 1916, 1917—3 years	771	685	714	638	668	612	474	464	546	796	827	918	8,113	Massachusetts.
Michigan	1913–1917—5 years	500	378	426	365	368	333	296	305	389	681	775	664	5,480	Michigan.
Minnesota	do	314	255	247	243	297	220	204	227	231	396	377	295	3,306	Minnesota.
Mississippi	1914–1917—4 years	78	54	37	29	23	34	42	93	153	212	173	129	1,057	Mississippi.
Montana	1913, 1914, 1916, 1917—4 years	16	16	20	15	17	15	20	13	17	23	26	30	228	Montana.
Nevada	1913, 1915, 1917—3 years	1	(1)	0	1	1	(1)	2	1	(1)	2	1	1	10	Nevada.
New Jersey	1913–1917—5 years	630	527	517	444	520	456	368	300	404	658	763	674	6,261	New Jersey.
New York	do	2,031	1,921	1,924	1,740	1,920	1,850	1,403	989	1,118	1,719	1,780	1,966	20,361	New York.
North Dakota	1917—1 year	33	36	49	24	23	33	46	34	61	27	78	95	539	North Dakota.
Ohio	1914–1917—4 years	852	649	600	472	466	409	350	436	788	1,266	1,324	939	8,551	Ohio.
Oklahoma	1913, 1915, 1917—3 years	112	72	58	47	31	22	22	49	154	276	230	206	1,279	Oklahoma.
Oregon	1913–1917—5 years	32	21	24	21	21	22	15	17	16	25	39	38	291	Oregon.
Pennsylvania	1916, 1917—2 years	1,451	1,239	1,169	971	998	870	829	909	1,374	1,948	1,929	1,550	15,297	Pennsylvania.
Porto Rico	1914, 1915, 1917—3 years	15	12	12	7	13	8	13	16	9	18	11	9	143	Porto Rico.
Rhode Island	1914, 1916, 1917—3 years	113	103	101	75	93	61	74	65	66	125	110	97	1,083	Rhode Island.
South Carolina	1913–1917—5 years	97	89	65	71	50	51	56	160	316	348	242	202	1,747	South Carolina.
South Dakota	1913, 1914, 1917—3 years	33	23	24	17	20	16	21	15	13	16	36	20	254	South Dakota.
Texas	1915, 1917—2 years	156	110	74	92	46	41	69	53	139	358	456	277	1,871	Texas.
Utah	1913–1915, 1917—4 years	33	24	23	26	17	22	17	20	29	45	42	38	336	Utah.
Vermont	1914–1917—4 years	42	27	25	33	33	28	25	24	25	66	67	52	447	Vermont.
Virginia	1913–1917—5 years	262	244	120	86	64	53	85	225	445	659	618	327	3,188	Virginia.
Washington	do	48	40	37	38	37	35	28	27	33	35	50	45	453	Washington.
West Virginia	1917—1 year	82	55	43	43	36	29	18	70	180	125	173	73	927	West Virginia.
Wisconsin	1913–1917—5 years	255	167	198	180	160	126	113	158	140	248	259	247	2,251	Wisconsin.
Wyoming	do	3	4	5	3	1	(1)	2	1	6	6	7	8	46	Wyoming.

[1] Less than one.

Cases of diphtheria reported, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	53	39	40	26	16	17	60	126	150	120	57	43	747	Alabama.
Arizona	10	1	3	1	3	0	6	7	3	1	2	1	38	Arizona.
Arkansas	17	19	15	16	19	5	5	12	13	14	11	27	173	Arkansas.
California	354	280	306	284	290	246	222	188	187	381	169	210	3,117	California.
Colorado	68	36	48	62	86	82	53	36	58	46	23	22	620	Colorado.
Connecticut	322	173	203	208	132	132	159	99	204	248	209	259	2,348	Connecticut.
District of Columbia	57	37	49	55	72	44	23	13	21	31	48	67	517	District of Columbia.
Florida	25	31	32	8	10	19	13	14	36	43	55	43	329	Florida.
Illinois	1,028	649	751	665	565	566	487	362	604	990	703	705	8,075	Illinois.
Indiana	382	334	301	264	201	155	176	185	222	173	216	230	2,839	Indiana.
Iowa	88	78	73	74	68	52	62	51	78	115	96	76	911	Iowa.
Kansas	214	88	128	138	92	57	45	59	148	116	118	90	1,293	Kansas
Louisiana	84	84	51	52	96	298	194	145	79	42	41	35	1,201	Louisiana.
Maine	20	15	54	15	9	15	17	30	15	29	29	14	262	Maine.
Maryland	165	125	92	93	91	59	54	58	88	152	122	162	1,261	Maryland.
Massachusetts	950	678	744	667	663	473	453	337	430	410	532	584	6,921	Massachusetts.
Michigan	593	498	482	379	368	342	454	302	455	693	637	709	5,912	Michigan.
Minnesota	314	211	339	362	343	255	232	226	221	411	321	365	3,600	Minnesota.
Mississippi	72	54	335	35	40	49	50	105	103	109	104	82	1,138	Mississippi.
Montana	58	25	21	30	51	19	28	15	14	16	21	11	309	Montana.
Nebraska	55	34	21	57	104	69	51	36	96	80	32	71	706	Nebraska.
New Jersey	413	361	413	485	342	303	341	204	324	374	422	483	4,465	New Jersey.
New York	1,543	1,268	1,554	1,649	1,690	1,587	1,226	821	819	1,290	1,300	1,754	16,501	New York.
North Carolina	75	51	49	44	40	38	65	143	321	233	171	97	1,327	North Carolina.
North Dakota	39	38	49	52	61	31	30	24	38	11	9	9	391	North Dakota.
Ohio	618	619	607	385	333	361	330	338	459	549	509	399	5,507	Ohio.
Oregon	7	15	10	8	14	22	11	13	19	17	21	25	182	Oregon.
Pennsylvania	1,003	1,049	1,046	1,002	850	824	779	752	1,095	1,569	1,118	1,291	12,378	Pennsylvania.
Porto Rico	7	8	11	11	17	7	10	19	21	10	10	7	138	Porto Rico.
Rhode Island	93	65	79	95	70	74	55	29	70	63	72	130	895	Rhode Island.
South Carolina	99	45	68	93	51	8	50	84	221	79	147	94	1,039	South Carolina.
South Dakota	26	15	17	24	7	16	30	27	14	44	26	27	273	South Dakota.
Texas	126	100	107	61	76	50	48	76	70	38	42	39	833	Texas.
Utah	46	41	52	45	21	47	48	45	44	85	69	51	594	Utah.
Vermont	17	11	14	18	8	9	21	13	38	38	19	35	241	Vermont.
Virginia	121	111	96	77	37	38	42	132	113	272	199	129	1,367	Virginia.
Washington	93	173	58	45	57	38	33	38	93	124	53	57	862	Washington.
West Virginia	51	28	19	28	13	13	31	20	46	28	36	32	345	West Virginia.
Wisconsin	241	156	138	130	171	133	156	100	138	160	125	126	1,774	Wisconsin.
Wyoming	20	50	18	18	25	13	6	11	24	6	7	4	202	Wyoming.

Deaths registered as due to diphtheria, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	30	10	11	8	2	3	12	26	27	38	18	10	195	Alabama.
Arizona	1	1	2	3	4	1	3	.....	.....	1	1	.....	17	Arizona.
Arkansas	19	7	3	7	3	4	4	8	9	18	5	17	104	Arkansas.
California	21	18	19	18	18	17	13	9	19	15	16	21	204	California.
Connecticut	19	12	25	8	13	10	9	10	18	29	21	27	201	Connecticut.
Delaware	5	0	2	1	2	1	0	1	2	8	3	2	27	Delaware.
District of Columbia	4	4	1	.....	4	4	1	1	.....	3	4	14	40	District of Columbia.
Florida	10	6	8	3	2	2	5	6	12	14	9	9	86	Florida.
Hawaii	3	.....	.....	3	2	1	2	1	2	1	1	1	17	Hawaii.
Illinois	144	105	103	100	82	65	69	61	77	154	103	89	1,152	Illinois.
Indiana	63	45	42	47	25	14	21	23	23	35	40	39	417	Indiana.
Iowa	15	11	16	14	13	8	13	12	26	33	25	25	211	Iowa.
Kansas	19	9	14	18	10	4	1	1	8	13	16	16	129	Kansas.
Kentucky	27	14	20	8	9	7	5	19	36	37	35	17	234	Kentucky.
Louisiana	16	12	5	16	1	5	4	6	9	7	15	6	102	Louisiana.
Maine	11	8	5	5	1	.....	4	6	3	13	3	1	60	Maine.
Maryland	15	13	8	14	9	2	5	4	5	34	13	15	137	Maryland.
Massachusetts	90	54	55	68	40	30	34	25	35	57	34	72	594	Massachusetts.
Michigan	78	67	67	38	41	29	46	25	36	78	72	81	658	Michigan.
Minnesota	16	16	26	18	33	21	19	16	23	42	26	18	274	Minnesota.
Nebraska	17	6	8	8	9	8	6	6	9	11	6	9	103	Nebraska.
New Jersey	54	43	46	40	33	28	27	18	36	56	50	54	485	New Jersey.
New York	172	150	173	206	160	134	105	79	83	189	140	181	1,772	New York.
North Dakota	4	6	.....	8	2	2	2	7	.....	2	2	.....	35	North Dakota.
Ohio	61	55	50	36	34	22	19	23	42	56	49	50	497	Ohio.
Oklahoma	7	15	13	7	5	3	5	8	7	21	14	19	124	Oklahoma.
Oregon	1	2	0	1	3	1	0	2	2	4	5	6	27	Oregon.
Pennsylvania	192	129	159	131	108	112	84	73	133	257	194	198	1,770	Pennsylvania.
Porto Rico	8	3	3	6	3	1	6	11	3	5	3	3	55	Porto Rico.
Rhode Island	13	8	12	13	7	10	2	3	3	9	9	11	100	Rhode Island.
South Carolina	3	2	5	6	4	3	4	8	11	20	10	5	81	South Carolina.
South Dakota	.....	.....	2	2	2	2	3	2	3	4	1	4	25	South Dakota.
Texas	31	30	25	12	12	6	7	9	10	20	15	20	197	Texas.
Utah	7	7	6	7	5	5	4	4	6	5	7	5	68	Utah.
Vermont	3	1	1	1	3	2	2	2	2	3	1	2	23	Vermont.
Washington	8	4	5	8	4	6	3	5	4	18	7	11	83	Washington.
Wisconsin	25	18	14	23	25	17	25	20	14	27	22	20	250	Wisconsin.
Wyoming	2	5	4	1	2	2	1	1	.....	3	1	2	24	Wyoming.

Diphtheria—Average number of cases reported per annum and average indicated morbidity rates, 1913-1917; cases reported, deaths registered, and indicated morbidity, mortality, and fatality rates, 1918.

State.	Estimated population July 1, 1918.	Average.			1918					State.
		Years.	Cases reported per annum.	Cases per 1,000 inhabitants.	Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
Alabama	2,395,270	1913, 1915-1917—4 years	647	0.28	747	0.31	195	0.08	26.1	Alabama.
Arizona	272,034	1914, 1916—2 years	40	.16	38	.14	17	.06	44.7	Arizona.
Arkansas	1,792,965	1917—1 year	288	.16	173	.10	104	.06	60.1	Arkansas.
California	3,119,412	1913-1917—5 years	2,731	.96	3,117	1.00	204	.07	6.5	California.
Colorado	1,014,581	1914, 1916, 1917—3 years	566	.59	620	.61				Colorado.
Connecticut	1,286,268	1913-1917—5 years	2,343	1.91	2,348	1.83	201	.16	8.6	Connecticut.
Delaware	216,941						27	.12		Delaware.
District of Columbia	401,681	1913-1917—5 years	681	1.90	517	1.29	40	.10	7.8	District of Columbia.
Florida	938,877				329	.35	86	.09	26.1	Florida.
Hawaii	223,419	1913-1917—5 years	178	.84			17	.08		Hawaii.
Idaho	461,766	1913—1 year	29	.08						Idaho.
Illinois	6,317,734	1913, 1914, 1917—3 years	12,247	2.03	8,075	1.28	1,152	.18	14.3	Illinois.
Indiana	2,854,167	1913-1917—5 years	3,528	1.26	2,839	.99	417	.15	14.7	Indiana.
Iowa	2,224,771	1913, 1914, 1916, 1917—4 years	752	.34	911	.41	211	.09	23.2	Iowa.
Kansas	1,874,195	1913-1917—5 years	1,564	.87	1,293	.69	129	.07	10.0	Kansas.
Kentucky	2,408,547						234	.10		Kentucky.
Louisiana	1,884,778	1914-1917—4 years	1,054	.58	1,201	.64	102	.05	8.5	Louisiana.
Maine	782,191	1916, 1917—2 years	354	.46	262	.33	60	.08	22.9	Maine.
Maryland	1,384,539	1915-1917—3 years	2,007	1.47	1,261	.91	137	.10	10.9	Maryland.
Massachusetts	3,832,790	1913, 1916, 1917—3 years	8,113	2.20	6,921	1.81	594	.15	8.6	Massachusetts.
Michigan	3,133,678	1913-1917—5 years	5,480	1.82	5,912	1.89	658	.21	11.1	Michigan.
Minnesota	2,345,287	do	3,306	1.47	3,600	1.53	274	.12	7.6	Minnesota.
Mississippi	2,001,466	1914-1917—4 years	1,057	.55	1,138	.57	137	.07	12.0	Mississippi.
Missouri	3,448,498						364	.11		Missouri.
Montana	486,376	1913, 1914, 1916, 1917—4 years	228	.51	309	.64				Montana.
Nebraska	1,296,877				706	.54	103	.08	14.6	Nebraska.
Nevada	114,742	1913, 1915, 1917—3 years	10	.10						Nevada.
New Jersey	3,080,371	1913-1917—5 years	6,261	2.17	4,465	1.45	485	.16	10.9	New Jersey.
New York	10,646,989	do	20,361	2.02	16,501	1.55	1,772	.17	10.7	New York.
North Carolina	2,468,025				1,327	.54				North Carolina.
North Dakota	791,437	1917—1 year	539	.70	391	.49	35	.04	9.0	North Dakota.
Ohio	5,273,814	1914-1917—4 years	8,551	1.67	5,507	1.04	497	.09	9.0	Ohio.
Oklahoma	2,377,629	1913, 1915, 1917—3 years	1,279	.60			124	.05		Oklahoma.
Oregon	888,243	1913-1917—5 years	291	.36	182	.20	27	.03	14.8	Oregon.
Pennsylvania	8,798,067	1916, 1917—2 years	15,297	1.78	12,378	1.41	1,770	.20	14.3	Pennsylvania.

Diphtheria—Average number of cases reported per annum and average indicated morbidity rates, 1913–1917; cases reported, deaths registered, and indicated morbidity, mortality, and fatality rates, 1918—Continued.

State.	Estimated population July 1, 1918.	Average.			1918					State.
		Years.	Cases reported per annum.	Cases per 1,000 inhabitants.	Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
Porto Rico	1,247,677	1914, 1915, 1917—3 years	143	.12	138	.11	55	.04	39.9	Porto Rico.
Rhode Island	637,415	1914, 1916, 1917—3 years	1,083	1.77	895	1.40	100	.16	11.2	Rhode Island.
South Carolina	1,660,934	1913–1917—5 years	1,747	1.09	1,039	.63	81	.05	7.8	South Carolina.
South Dakota	735,434	1913, 1914, 1917—3 years	254	.38	273	.37	25	.03	9.2	South Dakota.
Texas	4,601,279	1915, 1917—2 years	1,871	.42	833	.18	197	.04	23.6	Texas.
Utah	453,648	1913–1915, 1917—4 years	336	.80	594	1.31	68	.15	11.5	Utah.
Vermont	366,192	1914–1917—4 years	447	1.23	241	.66	23	.06	9.5	Vermont.
Virginia	2,234,030	1913—1917—5 years	3,188	1.47	1,367	.61				Virginia.
Washington	1,660,578	do	453	.31	862	.52	83	.05	9.6	Washington.
West Virginia	1,439,165	1917—1 year	927	.66	345	.24				West Virginia.
Wisconsin	2,553,983	1913–1917—5 years	2,251	.91	1,774	.69	250	.10	14.1	Wisconsin.
Wyoming	190,380	do	46	.26	202	1.06	24	.13	11.9	Wyoming.

Cases of influenza and pneumonia (all forms) reported, 1918.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Alabama:													
Influenza	81	54	27	37	29	7	2	1	15	122,127	13,507	8,148	144,035
Pneumonia (all forms)	1,007	565	1,061	269	340	158	291	108	415	8,229	775	452	13,670
Arkansas:													
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	.....	39,724	5,008	3,943	.....
California:													
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	.....	108,752	71,807	54,480	.....
Pneumonia (all forms)	440	306	370	331	319	190	185	140	132	1,644	301	273	4,631
Colorado:													
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	.....	20,976	15,770	8,124	.....
Pneumonia (all forms)	18	1	2	3	1	.....	.....	.....	2	1,183	548	201	1,950
Connecticut:													
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	8,970	82,057	6,773	8,041	.....
Pneumonia (all forms)	7	28	75	57	30	8	17	11	128	1,464	207	224	2,256
Florida:													
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	16	9,295	1,722	598	.....
Pneumonia (all forms)	47	77	36	27	75	22	14	21	27	386	196	54	982
Illinois:													
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	541	145,067	40,806	43,304	.....
Pneumonia (all forms)	602	560	1,242	1,409	612	163	142	68	255	10,375	2,274	2,596	20,298
Indiana:													
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	.....	45,430	27,344	27,248	.....
Pneumonia (all forms)	.....	.....	.....	.....	.....	.....	.....	59	120	2,219	840	1,271	.....
Iowa:													
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	.....	42,797	18,827	31,638	.....
Kansas:													
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	277	45,971	40,875	46,354	.....
Pneumonia (all forms)	249	310	306	212	117	23	10	8	40	566	433	648	2,922
Louisiana:													
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	108	137,155	21,864	25,816	.....
Pneumonia (all forms)	487	454	334	292	253	347	120	126	116	1,088	42	83	3,742
Maine:													
Influenza	.....	.....	.....	.....	.....	.....	.....	2	3,002	20,162	7,311	11,688	.....
Pneumonia (all forms)	.....	.....	.....	.....	.....	.....	.....	.....	9	367	285	325	.....
Maryland:													
Influenza	69	80	83	38	18	7	10	5	1,702	47,928	16,534	13,780	80,254
Pneumonia (all forms)	719	925	1,252	860	462	165	135	65	92	5,377	478	409	10,939
Massachusetts:													
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	.....	88,494	14,750	42,018	.....
Pneumonia (lobar)	698	883	796	1,195	563	200	140	170	3,114	3,817	616	1,202	13,394
Michigan:													
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	.....	43,540	26,862	45,693	.....
Pneumonia (all forms)	223	187	267	445	168	83	55	42	78	1,347	697	1,243	4,835

Alabama:
Influenza.
Pneumonia (all forms).
Arkansas:
Influenza.
California:
Influenza.
Pneumonia (all forms).
Colorado:
Influenza.
Pneumonia (all forms).
Connecticut:
Influenza.
Pneumonia (all forms).
Florida:
Influenza.
Pneumonia (all forms).
Illinois:
Influenza.
Pneumonia (all forms).
Indiana:
Influenza.
Pneumonia (all forms).
Iowa:
Influenza.
Kansas:
Influenza.
Pneumonia (all forms).
Louisiana:
Influenza.
Pneumonia (all forms).
Maine:
Influenza.
Pneumonia (all forms).
Maryland:
Influenza.
Pneumonia (all forms).
Massachusetts:
Influenza.
Pneumonia (lobar).
Michigan:
Influenza.
Pneumonia (all forms).

Cases of influenza and pneumonia (all forms) reported, 1918—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Minnesota:													
Influenza									281	61,121	43,320	22,251	
Pneumonia (all forms)										1,485	2,126	725	
Mississippi:													
Influenza										(1)	(1)	28,280	
Pneumonia (all forms)	4,043	3,594	2,609	1,732	650	247	253	233	389	5,044	3,607	3,037	25,438
Montana:													
Influenza										19,980	12,193	5,471	
Nebraska:													
Influenza									31	45,591	33,777	45,862	
Pneumonia (all forms)	20	20	8	13	6	2	3		9	55	3	30	169
New Jersey:													
Influenza										258,447	15,140	19,252	
Pneumonia (all forms)										15,272	1,281	1,474	
New York:													
Influenza									2,131	399,614	65,393	39,441	
Pneumonia (all forms)	74	174	362	765	368	144	118	56	424	19,878	6,727	4,184	33,274
North Carolina:													
Influenza										103,349	10,136	11,092	
Pneumonia (all forms)											3	207	
North Dakota:													
Influenza	1			6					17	7,908	5,426	4,888	18,246
Pneumonia (all forms)	1			4	3				1	105	83	62	259
Ohio:													
Influenza										51,612	53,664	67,912	
Pneumonia (lobar)	498	343	458	556	238	85	81	67	213	1,994	1,486	1,391	7,410
Oregon:													
Influenza	0	0	0	1	0	0	0	1	3	8,657	10,572	8,970	28,204
Pneumonia (all forms)	2	0	1	4	6	0	0	0	0	53	89	45	200
Pennsylvania:													
Pneumonia (all forms)	1,209	1,320	1,202	1,551	703	234	219	114	169	3,532	1,042	599	11,894
Porto Rico:													
Influenza										19,250	57,750	115,503	
Pneumonia (all forms)	2	3	1							147	542	564	1,259
Rhode Island:													
Influenza									9,645	16,581	1,702	3,607	
South Carolina:													
Influenza									2,767	77,635	18,198	2,674	
Pneumonia (all forms)	34	92	12	47	27		2	12	6	112	252	98	694
South Dakota:													
Influenza	5	4	5	7	2	1			246	22,122	11,692	10,317	44,401
Pneumonia (all forms)	35	40	49	55	36	26	9	8	22	90	410	217	997

Texas:														Texas:
Influenza	.....	1,158	748	1,049	.....	.....	.....	.....	445	45,943	9,094	13,412	71,849	Influenza.
Pneumonia (all forms)	0	325	286	261	46	19	6	7	42	1,781	217	1,471	4,461	Pneumonia (all forms).
Utah:														Utah:
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	.....	16,632	16,615	9,842	.....	Influenza.
Pneumonia (all forms)	228	135	115	109	92	35	18	15	31	320	452	261	1,811	Pneumonia (all forms).
Vermont:														Vermont:
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	5,451	25,724	1,437	3,342	.....	Influenza.
Pneumona (all forms)	16	14	12	9	11	0	1	0	374	1,292	17	27	1,773	Pneumonia (all forms).
Virginia:														Virginia:
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	10,512	139,439	46,563	54,302	.....	Influenza.
Washington:														Washington:
Influenza	.....	.....	.....	.....	.....	.....	.....	78	134	20,707	19,075	15,575	.....	Influenza.
Pneumonia (all forms)	.....	.....	.....	.....	.....	54	65	50	126	824	847	697	.....	Pneumonia (all forms).
West Virginia:														West Virginia:
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	138	16,323	4,849	3,528	.....	Influenza.
Wisconsin:														Wisconsin:
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	6	15,122	9,866	15,312	.....	Influenza.

[1] 148,366 cases reported during October and November.

Influenza, pneumonia (all forms), and both diseases combined—Deaths registered, 1918.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	
Alabama:														Alabama:
Influenza	81	54	27	37	29	7	2	1	15	2,478	1,446	1,269	5,446	Influenza.
Pneumonia (all forms)	730	731	462	597	275	111	62	75	110	1,225	775	536	5,689	Pneumonia (all forms).
Combined	811	785	489	634	304	118	64	76	125	3,703	2,221	1,805	11,135	Combined.
Arizona:														Arizona:
Influenza	2	1	2	7	3	.....	1	.....	1	230	246	84	577	Influenza.
Pneumonia (all forms)	81	76	84	126	66	53	23	26	19	618	762	292	2,226	Pneumonia (all forms).
Combined	83	77	86	133	69	53	24	26	20	848	1,008	376	2,803	Combined.
Arkansas:														Arkansas:
Influenza	28	24	33	15	12	1	1	.....	20	1,066	814	1,015	3,029	Influenza.
Pneumonia (all forms)	294	226	209	132	130	53	55	50	71	642	207	330	2,399	Pneumonia (all forms).
Combined	322	250	242	147	142	54	56	50	91	1,708	1,021	1,345	5,428	Combined.
California:														California:
Influenza	32	21	20	26	20	11	7	2	8	4,420	5,702	2,999	13,268	Influenza.
Pneumonia (all forms)	457	415	492	441	304	215	155	171	195	961	803	659	5,268	Pneumonia (all forms).
Combined	489	436	512	467	324	226	162	173	203	5,381	6,505	3,658	18,536	Combined.
Connecticut:														Connecticut:
Influenza	33	47	42	49	15	5	2	3	300	5,158	1,022	742	7,418	Influenza.
Pneumonia (all forms)	332	310	429	356	165	73	62	69	148	665	275	320	3,204	Pneumonia (all forms).
Combined	365	357	471	405	180	78	64	72	448	5,823	1,297	1,062	10,622	Combined.
Delaware:														Delaware:
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	.....	389	18	19	426	Influenza.
Pneumonia (all forms)	82	86	80	50	26	8	14	18	75	834	79	91	1,443	Pneumonia (all forms).
Combined	82	86	80	50	26	8	14	18	75	1,223	97	110	1,869	Combined.
District of Columbia:														District of Columbia:
Influenza	21	11	15	10	3	.....	1	1	37	1,471	131	327	2,028	Influenza.
Pneumonia (all forms)	149	128	180	104	61	28	24	18	51	338	68	149	1,298	Pneumonia (all forms).
Combined	170	139	195	114	64	28	25	19	88	1,809	199	476	3,326	Combined.

Florida:														**Florida:**
Influenza	27	18	7	7	7	3	1	4	32	2,036	705	266	3,113	Influenza.
Pneumonia (all forms)	170	126	74	76	65	24	32	30	56	675	230	117	1,675	Pneumonia (all forms).
Combined	197	144	81	83	72	27	33	34	88	2,711	935	383	4,788	Combined.
Hawaii:														**Hawaii:**
Influenza	3	7	9	4	7	2	72	28	8	8	4	13	165	Influenza.
Pneumonia (all forms)	54	60	50	55	47	26	52	32	24	20	36	36	492	Pneumonia (all forms).
Combined	57	67	59	59	54	28	124	60	32	28	40	49	657	Combined.
Illinois:														**Illinois:**
Influenza	89	87	91	164	74	21	7	8	797	8,631	4,069	3,841	17,879	Influenza.
Pneumonia (all forms)	964	855	1,149	1,401	711	248	182	175	436	5,446	1,456	1,422	14,445	Pneumonia (all forms).
Combined	1,053	942	1,240	1,565	785	269	189	183	1,233	14,077	5,525	5,263	32,324	Combined.
Indiana:														**Indiana:**
Influenza	74	71	70	127	54	6	1	7	64	2,080	1,748	1,917	6,219	Influenza.
Pneumonia (all forms)	519	363	466	565	277	73	72	62	136	1,278	880	918	5,609	Pneumonia (all forms).
Combined	593	434	536	692	331	79	73	69	200	3,358	2,628	2,835	11,828	Combined.
Iowa:														**Iowa:**
Influenza	44	43	31	42	31	7	2	.....	22	1,903	1,663	2,472	6,260	Influenza.
Pneumonia (all forms)	336	310	298	527	254	80	67	52	89	867	400	538	3,818	Pneumonia (all forms).
Combined	380	353	329	569	285	87	69	52	111	2,770	2,063	3,010	10,078	Combined.
Kansas:														**Kansas:**
Influenza	34	38	44	24	14	7	4	.....	8	899	581	986	2,639	Influenza.
Pneumonia (all forms)	379	318	371	342	172	47	37	40	82	2,003	945	1,316	6,052	Pneumonia (all forms).
Combined	413	356	415	366	186	54	41	40	90	2,902	1,526	2,302	8,691	Combined.
Kentucky:														**Kentucky:**
Influenza	87	71	59	78	38	14	7	5	42	4,253	2,974	1,553	9,181	Influenza.
Pneumonia (all forms)	484	504	477	491	185	74	79	59	120	948	1,494	387	5,302	Pneumonia (all forms).
Combined	571	575	536	569	223	88	86	64	162	5,201	4,468	1,940	14,483	Combined.
Louisiana:														**Louisiana:**
Influenza	96	77	33	29	30	9	8	6	22	3,400	1,591	624	5,925	Influenza.
Pneumonia (all forms)	526	444	260	267	194	95	87	79	80	1,175	536	283	4,026	Pneumonia (all forms).
Combined	622	521	293	296	224	104	95	85	102	4,575	2,127	907	9,951	Combined.

Influenza, pneumonia (all forms), and both diseases combined—Deaths registered, 1918—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	
Maine:														Maine:
Influenza	10	17	27	54	24	8	5	.....	105	1,315	451	530	2,546	Influenza.
Pneumonia (all forms)	141	133	201	233	88	59	33	18	90	526	180	270	1,972	Pneumonia (all forms).
Combined	151	150	228	287	112	67	38	18	195	1,841	631	800	4,518	Combined.
Maryland:														Maryland:
Influenza	31	18	40	22	9	3	4	2	88	4,154	468	405	5,244	Influenza.
Pneumonia (lobar)	412	436	407	316	174	83	66	38	122	3,535	358	364	6,311	Pneumonia (all forms).
Combined	443	454	447	338	183	86	70	40	210	7,689	826	769	11,555	Combined.
Massachusetts:														Massachusetts:
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	.....	8,274	1,022	1,804	.....	Influenza.
Pneumonia (lobar)	437	475	490	585	242	113	109	56	2,293	3,175	536	843	9,354	Pneumonia (lobar).
Combined	437	475	490	585	242	113	109	56	2,293	11,449	1,558	2,647	.....	Combined.
Michigan:														Michigan:
Influenza	51	56	39	125	54	11	13	5	22	2,451	1,866	2,104	6,797	Influenza.
Minnesota:														Minnesota:
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	48	2,084	3,166	1,884	.....	Influenza.
Pneumonia (all forms)	200	172	210	426	193	99	67	30	72	193	163	130	1,955	Pneumonia (all forms).
Combined	200	172	210	426	193	99	67	30	120	2,277	3,329	2,014	.....	Combined.
Nebraska:														Nebraska:
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	4	279	266	465	.....	Influenza.
Pneumonia (all forms)	132	147	165	188	108	57	27	27	39	1,336	931	1,012	4,169	Pneumonia (all forms).
Combined	132	147	165	188	108	57	27	27	43	1,615	1,197	1,477	.....	Combined.
New Jersey:														New Jersey:
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	193	8,566	1,347	857	.....	Influenza.
Pneumonia (all forms)	.....	.....	.....	.....	.....	.....	.....	.....	329	3,899	853	793	.....	Pneumonia (all forms).
Combined	.....	.....	.....	.....	.....	.....	.....	.....	522	12,465	2,200	1,650	.....	Combined.
New York:														New York:
Influenza	148	139	268	216	81	27	20	10	272	17,690	5,306	2,499	26,676	Influenza.
Pneumonia (all forms)	2,326	2,129	3,308	2,844	1,416	713	601	487	913	13,556	4,105	2,652	35,050	Pneumonia (all forms).
Combined	2,474	2,268	3,576	3,060	1,497	740	621	497	1,185	31,246	9,411	5,151	61,726	Combined.

North Dakota:														North Dakota:
Influenza	.....	.....	.....	.....	.....	.....	1	.....	.....	51	199	75	326	Influenza.
Pneumonia (all forms)	53	37	55	64	35	32	14	23	1	694	788	559	2,355	Pneumonia (all forms).
Combined	53	37	55	64	35	32	15	23	1	745	987	634	2,681	Combined.
Ohio:														Ohio:
Influenza	114	94	93	196	67	13	16	14	30	5,778	4,691	3,877	14,988	Influenza.
Pneumonia (all forms)	1,053	864	1,002	1,322	514	208	194	162	284	3,441	2,175	1,823	13,042	Pneumonia (all forms).
Combined	1,167	958	1,100	1,518	581	221	210	176	314	9,219	6,866	5,700	28,030	Combined.
Oklahoma:														Oklahoma:
Influenza	25	10	16	14	9	3	0	3	8	1,953	1,016	990	4,047	Influenza.
Pneumonia (all forms)	190	200	259	264	132	29	21	14	29	587	408	313	2,446	Pneumonia (all forms).
Combined	215	210	275	278	141	32	21	17	37	2,540	1,424	1,303	6,493	Combined.
Oregon:														Oregon:
Influenza	3	4	5	5	8	5	0	1	1	364	539	380	1,315	Influenza.
Pneumonia (all forms)	55	48	84	82	65	47	14	18	25	285	279	190	1,192	Pneumonia (all forms).
Combined	58	52	89	87	73	52	14	19	26	649	818	570	2,507	Combined.
Pennsylvania:														Pennsylvania:
Influenza	182	186	195	364	147	35	20	14	558	28,505	13,967	6,778	50,951	Influenza.
Pneumonia (all forms)	2,434	2,096	2,470	3,170	1,331	637	598	404	846	8,433	3,334	2,303	28,056	Pneumonia (all forms).
Combined	2,616	2,282	2,665	3,534	1,478	672	618	418	1,404	36,938	17,301	9,081	79,007	Combined.
Porto Rico:														Porto Rico:
Influenza	8	7	3	2	2	2	15	10	1	67	1,841	3,516	5,474	Influenza.
Pneumonia (all forms)	187	152	171	131	141	79	211	202	100	147	661	822	3,004	Pneumonia (all forms).
Combined	195	159	174	133	143	81	226	212	101	214	2,502	4,338	8,478	Combined.
Rhode Island:														Rhode Island:
Influenza	8	13	16	24	1	.....	.....	.....	140	1,618	243	243	2,306	Influenza.
Pneumonia (all forms)	120	97	142	162	71	38	28	20	113	600	101	147	1,639	Pneumonia (all forms).
Combined	128	110	158	186	72	38	28	20	253	2,218	344	390	3,945	Combined.
South Carolina:														South Carolina:
Influenza	29	33	15	19	7	4	1	2	3	786	457	354	1,710	Influenza.
Pneumonia (all forms)	339	283	242	255	209	107	79	42	152	2,825	1,158	976	6,667	Pneumonia (all forms).
Combined	368	316	257	274	216	111	80	44	155	3,611	1,615	1,330	8,377	Combined.

Influenza, pneumonia (all forms), and both diseases combined—Deaths registered, 1918—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	
South Dakota:														South Dakota:
Influenza	6	4	5	7	2	1	.....	.....	5	442	796	579	1,847	Influenza.
Pneumonia (all forms)	35	40	49	55	36	26	9	8	22	77	101	86	544	Pneumonia (all forms).
Combined	41	44	54	62	38	27	9	8	27	519	897	665	2,391	Combined.
Texas:														Texas:
Influenza	195	192	154	106	24	27	14	4	21	4,690	3,477	2,950	11,854	Influenza.
Pneumonia (all forms)	1,204	1,202	840	680	379	139	122	87	98	1,319	948	618	7,636	Pneumonia (all forms).
Combined	1,399	1,394	994	786	403	166	136	91	119	6,009	4,425	3,568	19,490	Combined.
Utah:														Utah:
Influenza	6	2	5	13	6	1	1	2	4	404	628	387	1,459	Influenza.
Pneumonia (all forms)	80	53	48	86	69	30	12	13	19	184	128	74	796	Pneumonia (all forms).
Combined	86	55	53	99	75	31	13	15	23	588	756	461	2,255	Combined.
Vermont:														Vermont:
Influenza	9	9	15	15	7	3	2	2	99	1,224	158	185	1,728	Influenza.
Pneumonia (all forms)	67	51	63	73	35	16	19	6	5	44	24	30	433	Pneumonia (all forms).
Combined	76	60	78	88	42	19	21	8	104	1,268	182	215	2,161	Combined.
Washington:														Washington:
Influenza	10	8	19	13	8	7	2	3	8	1,072	1,419	1,585	4,154	Influenza.
Pneumonia (all forms)	126	120	172	205	113	90	54	44	78	317	152	157	1,628	Pneumonia (all forms).
Combined	136	128	191	218	121	97	56	47	86	1,389	1,571	1,742	5,782	Combined.
Wisconsin:														Wisconsin:
Influenza	24	26	26	48	17	13	8	1	55	2,091	820	1,210	4,339	Influenza.
Pneumonia (all forms)	304	334	325	581	341	179	118	101	109	525	1,440	1,772	6,129	Pneumonia (all forms).
Combined	328	360	351	629	358	192	126	102	164	2,616	2,260	2,982	10,468	Combined.
Wyoming:														Wyoming:
Influenza	.....	.....	.....	.....	.....	.....	.....	.....	.....	42	95	32	.....	Influenza.
Pneumonia (all forms)	29	21	22	54	23	14	7	5	9	161	269	205	819	Pneumonia (all forms).
Combined	29	21	22	54	23	14	7	5	9	203	364	237	.....	Combined.

Influenza, pneumonia (all forms), and influenza and pneumonia combined—Deaths registered and indicated mortality rates, 1918.

State.	Estimated population July 1, 1918.	Influenza.		Pneumonia (all forms).		Combined.	
		Total deaths registered.	Deaths per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.
Alabama	2,335,270	5,446	2.3	5,689	2.4	11,135	4.6
Arizona	272,034	577	2.1	2,226	8.2	2,803	10.3
Arkansas	1,792,965	3,029	1.7	2,399	1.3	5,428	3.0
California	3,119,412	13,268	4.3	5,268	1.7	18,536	5.9
Connecticut	1,286,268	7,418	5.8	3,204	2.5	10,622	8.3
Delaware	216,941	426	2.0	1,443	6.7	1,869	8.6
District of Columbia	401,681	2,028	5.0	1,298	3.2	3,326	8.3
Florida	938,877	3,113	3.3	1,675	1.8	4,788	5.1
Hawaii	223,419	165	.7	492	2.2	657	2.9
Illinois	6,317,734	17,879	2.8	14,445	2.3	32,324	5.0
Indiana	2,854,167	6,219	2.2	5,609	2.0	11,828	4.1
Iowa	2,224,771	6,260	2.8	3,818	1.7	10,078	4.5
Kansas	1,874,195	2,639	1.4	6,052	3.2	8,691	4.6
Kentucky	2,408,547	9,181	3.8	5,302	2.2	14,483	6.0
Louisiana	1,884,778	5,925	3.1	4,026	2.1	9,951	5.3
Maine	782,191	2,546	3.3	1,972	2.5	4,518	5.8
Maryland	1,384,539	5,244	3.8	6,311	4.6	11,555	8.3
Massachusetts	3,832,790	11,100	2.9	[1] 9,354	2.4	[1] 20,454	5.3
Michigan	3,133,678	6,797	2.2	.....	.....	.....	.....
Minnesota	2,345,287	7,182	3.1	1,955	.8	9,137	4.0
Mississippi	2,001,466	.....	.....	2,873	1.4	.....	.....
Missouri	3,448,498	9,677	2.8	7,337	2.1	17,014	4.9
Nebraska	1,296,877	1,014	.8	4,169	3.2	5,183	4.0
New York	10,646,989	26,676	2.5	35,050	3.3	61,726	5.8
North Dakota	791,437	326	.4	2,355	3.0	2,681	3.4
Ohio	5,273,814	14,988	2.8	13,042	2.5	28,030	5.3
Oklahoma	2,377,629	4,047	1.7	2,446	1.0	6,493	2.7
Oregon	888,243	1,315	1.5	1,192	1.3	2,507	2.8
Pennsylvania	8,798,067	50,951	5.8	28,056	3.2	79,007	9.0
Porto Rico	1,247,677	5,474	4.4	3,004	2.4	8,478	6.8
Rhode Island	637,415	2,306	3.6	1,639	2.6	3,945	6.2
South Carolina	1,660,934	1,710	1.0	6,667	4.0	8,377	5.0
South Dakota	735,434	1,847	2.5	544	.7	2,391	3.3
Texas	4,601,279	11,854	2.6	7,636	1.7	19,490	4.2
Utah	453,648	1,459	3.2	796	1.8	2,255	5.0
Vermont	366,192	1,728	4.7	433	1.2	2,161	5.9
Washington	1,660,578	4,154	2.5	1,628	1.0	5,782	3.5
Wisconsin	2,553,983	4,339	1.7	6,129	2.4	10,468	4.1
Wyoming	190,380	169	.9	819	4.3	988	5.2

[1] Includes lobar pneumonia only.

Cases of malaria reported, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	38	18	41	100	105	182	370	354	388	81	83	30	1,790	Alabama.
Arkansas	173	380	323	409	505	621	525	903	469	128	102	171	4,709	Arkansas.
California	20	11	23	26	53	76	144	92	121	83	8	4	661	California.
Colorado	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	2	Colorado.
Connecticut	.....	.....	.....	.....	.....	.....	.....	1	3	.....	.....	.....	4	Connecticut.
Florida	39	44	43	50	44	74	98	161	236	71	50	21	931	Florida.
Illinois	1	.....	.....	.....	.....	.....	2	1	3	.....	.....	.....	7	Illinois.
Kansas	.....	.....	1	.....	2	4	4	3	4	9	.....	1	28	Kansas.
Louisiana	19	30	108	152	339	348	259	326	382	105	41	16	2,125	Louisiana.
Maryland	3	2	2	0	7	29	59	52	35	8	6	10	213	Maryland.
Massachusetts	.....	1	2	5	4	5	16	31	9	4	2	3	82	Massachusetts.
Minnesota	0	0	0	3	0	1	1	2	0	0	0	0	7	Minnesota.
Mississippi	3,652	4,659	6,084	8,707	11,477	14,103	16,214	15,712	12,172	5,996	4,265	2,742	105,783	Mississippi.
New Jersey	8	1	18	15	38	36	33	30	34	15	6	47	281	New Jersey.
Ohio	.....	3	6	5	5	6	14	9	9	4	16	7	84	Ohio.
Pennsylvania	.....	.....	1	.....	.....	1	1	.....	1	1	.....	.....	5	Pennsylvania.
Porto Rico	148	353	204	101	77	75	77	62	93	74	138	69	1,471	Porto Rico.
South Carolina	2	35	3	64	113	53	46	197	50	16	4	8	591	South Carolina.
Texas	0	2	19	23	34	53	68	92	183	48	31	9	562	Texas.
Virginia	193	232	270	333	367	577	590	701	415	360	184	99	4,321	Virginia.

Deaths registered as due to malaria, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	11	9	14	18	19	55	51	83	63	29	8	16	376	Alabama.
Arizona								1					1	Arizona.
Arkansas	24	20	27	15	24	44	52	53	45	45	19	36	404	Arkansas.
California	3	1	3	2	6	3	8	3	8	12	3	2	54	California.
Connecticut				1		1			1				3	Connecticut.
Florida	6	4	11	18	17	32	25	29	25	33	9	8	217	Florida.
Illinois	3	3	2	5	7	7	12	18	10	6	2	2	77	Illinois.
Indiana	1	1	1	1		4	7	5	3	2	2	4	31	Indiana.
Iowa	0	0	0	1	1	0	0	0	0	0	0	0	2	Iowa.
Kansas	1	0	0	3	5	1	3	2	4	6	2	1	28	Kansas.
Kentucky	4	7	5	9	9	11	11	15	15	10	8	5	109	Kentucky.
Louisiana	7	16	16	42	64	89	83	73	71	23	15	11	510	Louisiana.
Maine							1			1			2	Maine.
Maryland	0	0	0	0	0	3	1	0	0	1	0	1	6	Maryland.
Massachusetts	1		1	1		1							4	Massachusetts.
Minnesota	0	0	0	0	0	1	0	0	0	0	0	0	1	Minnesota.
Nebraska						1							1	Nebraska.
New Jersey			3	2		1	1	1	1		2	1	12	New Jersey.
New York	2	1	3	1	5	2	2	3	2	1	2		24	New York.
Ohio			3	2	1	4		3	3	2	2		20	Ohio.
Oklahoma	3	1	11	7	18	22	26	28	25	10	9	3	163	Oklahoma.
Pennsylvania		1	2	1	3		1		1	2	1		12	Pennsylvania.
Porto Rico	151	107	121	104	94	61	120	129	113	150	213	171	1,534	Porto Rico.
Rhode Island							1						1	Rhode Island.
South Carolina	5	4	8	16	14	38	29	45	50	53	13	14	289	South Carolina.
Texas	19	20	32	37	38	52	80	50	53	30	15	9	435	Texas.
Vermont							1						1	Vermont.

Malaria—Cases reported, deaths registered, and indicated morbidity, mortality, and fatality rates, 1918.

State.	Estimated population, July 1, 1918.	Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Alabama	2,395,270	1,790	0.747	376	0.157	21.0
Arizona	272,034	.....	.....	1	.004	.....
Arkansas	1,792,965	4,709	2.626	404	.225	8.6
California	3,119,412	661	.212	54	.017	8.2
Colorado	1,014,581	2	.002	.....	.....	.....
Connecticut	1,286,268	4	.003	3	.002	75.0
Florida	938,877	931	.992	217	.231	23.3
Illinois	6,317,734	7	.....	77	.012	.....
Indiana	2,854,167	.....	.....	31	.011	.....
Iowa	2,224,771	.....	.....	2	.001	.....
Kansas	1,874,195	28	.015	28	.015	.....
Kentucky	2,408,547	.....	.....	109	.045	.....
Louisiana	1,884,778	2,125	1.127	510	.271	24.0
Maine	782,191	.....	.....	2	.003	.....
Maryland	1,384,539	213	.154	6	.004	2.8
Massachusetts	3,832,790	82	0.021	4	0.001	4.9
Minnesota	2,345,287	7	.003	1	.....	14.3
Mississippi	2,001,466	105,783	52.853	791	.395	.7
Missouri	3,448,498	.....	.....	222	.064	.....
Nebraska	1,296,877	.....	.....	1	.001	.....
New Jersey	3,080,371	281	.091	12	.004	4.3
New York	10,646,989	.....	.....	24	.002	.....
Ohio	5,273,814	81	.016	20	.004	23.8
Oklahoma	2,377,629	.....	.....	163	.069	.....
Pennsylvania	8,798,067	5	.....	12	.001	.....
Porto Rico	1,247,677	1,471	.....	1,534	1.229	.....
Rhode Island	637,415	.....	.....	1	.002	.....
South Carolina	1,660,934	591	.356	289	.174	48.9
Texas	4,601,279	562	.122	435	.095	77.4
Vermont	366,192	.....	.....	1	.003	.....
Virginia	2,234,030	4,321	1.934	.....	.....	.....

Measles—Monthly averages of cases reported during the years for which data are available, 1913–1917.

State.	Years.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Average per year.	State.
Alabama	1915–1917—3 years	265	1,318	2,042	1,542	787	229	85	62	27	58	143	357	6,915	Alabama.
Arkansas	1917—1 year	891	1,517	1,705	1,143	474	116	33	5	101	67	543	1,250	7,845	Arkansas.
California	1913–1917—5 years	804	1,292	1,692	1,734	1,589	914	338	227	252	333	331	491	9,997	California.
Colorado	1914, 1916, 1917—3 years	385	983	1,520	1,433	1,170	404	90	46	45	41	47	155	6,319	Colorado.
Connecticut	1913–1917—5 years	631	692	893	953	1,129	925	379	79	37	113	257	430	6,518	Connecticut.
District of Columbia	1913–1917—5 years	214	429	676	564	441	343	153	31	11	18	55	75	3,010	District of Columbia.
Hawaii	1913–1917—5 years	75	60	43	75	53	55	16	8	12	82	81	83	643	Hawaii.
Illinois	1913, 1914, 1917, 3 years	3,564	4,574	6,603	6,600	5,513	2,828	856	195	137	208	423	698	32,199	Illinois.
Indiana	1914–1917—4 years	1,481	2,268	3,439	4,073	3,235	1,939	417	83	46	148	422	660	18,211	Indiana.
Kansas	1913–1917—5 years	377	1,198	2,632	2,865	2,288	750	178	41	32	72	182	287	11,002	Kansas.
Louisiana	1914–1917—4 years	1,044	501	297	179	139	78	48	43	25	145	588	779	3,866	Louisiana.
Maine	1916–1917—2 years	60	165	194	153	118	199	184	48	43	58	341	519	2,082	Maine.
Maryland	1915–1917—3 years	638	844	1,407	1,501	1,800	1,353	456	140	96	116	379	663	9,393	Maryland.
Massachusetts	1913, 1916, 1917—3 years	2,329	2,848	3,819	4,306	4,374	3,622	1,633	404	188	391	767	1,141	25,822	Massachusetts.
Michigan	1913–1917—5 years	686	934	1,389	1,504	1,801	1,125	322	100	78	276	344	517	9,076	Michigan.
Minnesota	1913–1917—5 years	323	662	1,150	1,215	1,176	672	199	50	26	60	152	179	5,864	Minnesota.
Mississippi	1914–1917—4 years	1,048	2,610	3,647	2,786	1,901	857	377	183	182	358	1,545	2,514	18,008	Mississippi.
Montana	1913, 1914, 1916, 1917—4 years	443	391	620	538	503	208	58	24	17	53	49	121	3,025	Montana.
Nevada	1913, 1917—2 years	80	205	333	133	75	34	23	2	2	4	29	29	949	Nevada.
New York	1913–1917—5 years	4,675	5,813	8,336	9,995	11,210	8,945	3,937	1,077	521	984	1,861	3,343	60,697	New York.
North Dakota	1917—1 year	131	167	251	191	224	83	27	2	22	11	8	18	1,135	North Dakota.
Ohio	1914–1917—4 years	2,352	3,688	5,545	6,284	5,105	2,927	1,045	227	138	294	693	1,081	29,379	Ohio.
Oklahoma	1913, 1915, 1917—3 years	233	902	1,370	1,515	520	179	59	10	9	15	48	149	5,009	Oklahoma.
Oregon	1913–1917—5 years	309	441	442	327	239	129	61	34	23	41	74	168	2,288	Oregon.
Pennsylvania	1916, 1917—2 years	7,223	9,100	13,357	12,716	9,635	6,041	2,195	625	313	619	1,319	2,277	65,420	Pennsylvania.
Porto Rico	1917—1 year	112	181	337	804	1,005	1,009	464	345	540	861	705	638	7,001	Porto Rico.
Rhode Island	1914, 1916, 1917—3 years	122	92	196	225	222	148	76	12	5	21	65	39	1,223	Rhode Island.
South Carolina	1913–1917—5 years	416	522	577	439	156	73	34	21	16	29	151	358	2,792	South Carolina.
South Dakota	1913, 1914, 1917—3 years	192	170	174	289	273	94	23	10	3	15	46	38	1,327	South Dakota.
Texas	1917—1 year	574	1,715	1,114	259	29	1	6	0	0	55	84	909	4,746	Texas.
Utah	1913–1915, 1917—4 years	1,888	1,623	1,206	1,001	654	244	62	22	12	30	90	179	7,011	Utah.
Vermont	1914–1917—4 years	267	443	721	508	589	356	247	77	52	50	54	78	3,442	Vermont.
Virginia	1915–1917—3 years	1,668	2,311	3,197	3,380	3,169	1,486	494	175	131	204	548	986	17,749	Virginia.
Washington	1913–1917—5 years	1,080	1,297	1,250	1,445	1,341	815	272	88	54	256	454	684	9,036	Washington.
West Virginia	1917—1 year	1,197	931	453	634	359	160	59	29	8	17	54	21	3,922	West Virginia.
Wisconsin	1913–1917—5 years	822	907	1,278	1,080	1,150	914	369	81	48	211	314	515	7,689	Wisconsin.
Wyoming	1913–1917—5 years	41	71	101	61	105	33	16	4	5	5	20	77	539	Wyoming.

Cases of measles reported, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	2,337	1,451	1,194	417	149	81	41	66	229	93	51	111	6,220	Alabama.
Arizona	5	38	73	27	6	8	0	2	2	1	0	0	162	Arizona.
Arkansas	1,242	1,913	1,051	527	362	99	34	5	8	13	15	66	5,335	Arkansas.
California	2,568	5,592	5,288	3,641	2,999	1,474	715	219	314	494	61	29	23,194	California.
Colorado	491	482	498	289	181	99	16	5	6	3	3	7	2,080	Colorado.
Connecticut	705	601	773	851	932	550	304	110	86	204	89	245	5.450	Connecticut.
District of Columbia	576	1,084	2,088	2,023	865	214	79	22	16	12	12	10	7,001	District of Columbia.
Florida	368	599	297	172	151	76	62	111	69	33	64	185	2,187	Florida.
Illinois	1,150	939	1,237	1,278	1,501	641	273	121	56	141	67	171	7,575	Illinois.
Indiana	820	1,370	1,241	833	634	304	62	60	40	62	44	113	5,583	Indiana.
Iowa	449	248	250	118	63	30	15	5	6	2	4	8	1,198	Iowa.
Kansas	2,170	2,391	1,504	2,219	1,655	481	74	77	20	66	46	90	10,793	Kansas.
Louisiana	1,002	897	680	222	163	81	122	93	33	9	72	151	3,525	Louisiana.
Maine	727	217	208	65	75	74	146	25	13	52	41	4	1,647	Maine.
Maryland	983	1,240	2,631	3,943	3,316	1,287	554	183	95	91	163	174	14,660	Maryland.
Massachusetts	2,950	3,471	4,018	5,210	6,335	3,663	1,962	500	263	318	179	343	29,212	Massachusetts.
Michigan	675	558	1,018	1,263	1,047	455	282	127	69	243	106	63	5,906	Michigan.
Minnesota	458	549	515	415	582	707	358	59	18	19	21	26	3,727	Minnesota.
Mississippi	15,452	10,985	7,743	4,041	1,884	757	277	161	191	123	166	265	42,045	Mississippi.
Montana	134	190	195	218	287	156	36	14	24	17	2	15	1,288	Montana.
Nebraska	286	293	214	460	155	43	20	11	69	16	.....	17	1,584	Nebraska.
New Jersey	2,457	3,925	5,432	6,505	5,660	2,796	1,121	279	103	84	27	48	28,437	New Jersey.
New York	7,749	8,470	13,446	14,842	14,310	7,629	4,804	1,352	446	588	414	345	74,395	New York.
North Carolina	1,449	1,700	1,837	1,269	945	364	111	77	100	127	34	56	8,069	North Carolina.
North Dakota	30	58	287	69	94	35	27	4	.....	8	1	2	615	North Dakota.
Ohio	1,172	1,754	2,298	2,495	2,750	1,455	728	237	234	322	168	452	14,065	Ohio.
Oregon	110	411	1,577	1,322	810	289	75	18	34	46	16	34	4,742	Oregon.
Pennsylvania	3,050	4,432	8,146	10,593	11,139	6,611	3,440	1,094	616	1,621	529	565	51,836	Pennsylvania.
Porto Rico	311	656	534	95	70	62	.....	5	10	1	2	.....	1,746	Porto Rico.
Rhode Island	55	88	271	1,224	1,009	652	301	24	10	4	4	5	3,647	Rhode Isalnd.
South Carolina	449	754	257	434	174	20	26	8	11	50	24	38	2,245	South Carolina.
South Dakota	108	170	140	289	283	164	79	30	13	12	10	22	1,320	South Dakota.
Texas	1,509	722	1,110	500	265	136	9	8	30	10	8	49	4,356	Texas.
Utah	536	630	759	1,079	1,171	601	184	100	92	78	27	17	5,274	Utah.
Vermont	42	33	37	112	230	208	114	34	68	57	68	83	1,086	Vermont.
Virginia	2,565	3,808	4,685	4,750	2,801	807	391	293	85	96	46	219	20,546	Virginia.
Washington	545	766	1,058	991	668	535	276	153	102	36	12	24	5,166	Washington.
West Virginia	116	276	354	343	155	87	51	20	6	16	4	10	1,438	West Virginia.
Wisconsin	1,112	2,266	4,034	4,066	4,637	1,618	760	181	137	443	63	59	19,376	Wisconsin.
Wyoming	68	124	326	159	218	117	11	1	1	3	1	4	1,033	Wyoming.

Deaths registered as due to measles, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	80	119	113	76	40	9	8	4	8	6	4	3	470	Alabama.
Arizona	1	6	8	4	4	5	5	4	.....	.....	.....	.....	37	Arizona.
Arkansas	124	65	46	27	25	13	6	6	1	7	2	14	336	Arkansas.
California	17	24	26	29	22	23	4	4	2	.....	2	1	154	California.
Connecticut	13	7	12	9	9	6	4	3	4	6	7	5	85	Connecticut.
Delaware	2	1	2	0	2	2	1	1	2	1	0	0	14	Delaware.
District of Columbia	5	11	7	13	10	1	1	.....	.....	.....	.....	.....	48	District of Columbia.
Florida	10	26	35	30	17	7	7	2	.....	.....	.....	3	137	Florida.
Hawaii	.....	.....	.....	.....	1	1	5	.....	1	1	1	1	11	Hawaii.
Illinois	37	28	43	61	76	30	12	7	5	15	12	15	341	Illinois.
Indiana	10	12	20	29	26	13	2	1	1	1	3	2	120	Indiana.
Iowa	7	13	39	58	51	20	5	5	0	4	6	6	214	Iowa.
Kansas	20	44	64	67	50	11	1	2	1	42	6	5	313	Kansas.
Kentucky	26	45	66	68	38	17	7	8	3	35	23	5	341	Kentucky.
Louisiana	47	46	35	38	37	28	13	4	4	1	0	1	254	Louisiana.
Maine	20	17	19	10	11	12	7	4	2	1	.....	.....	103	Maine.
Maryland	10	11	34	29	41	11	7	3	1	3	4	1	155	Maryland.
Massachusetts	39	48	59	79	100	80	53	21	15	21	.....	4	519	Massachusetts.
Michigan	17	33	31	38	62	30	19	6	2	7	10	4	259	Michigan.
Minnesota	2	3	13	18	18	14	11	1	2	5	0	2	89	Minnesota.
Nebraska	1	1	1	2	6	1	1	0	0	0	0	0	13	Nebraska.
New Jersey	69	50	97	112	84	61	31	8	5	4	.....	2	523	New Jersey.
New York	123	150	251	262	191	129	73	37	21	29	14	13	1,293	New York.
North Dakota	.....	1	3	.....	3	.....	.....	.....	.....	.....	.....	.....	7	North Dakota.
Ohio	11	23	35	68	44	37	15	10	3	9	7	8	270	Ohio
Oklahoma	16	53	64	59	39	11	6	3	1	2	0	0	254	Oklahoma.
Oregon	3	1	10	17	10	9	4	2	0	0	1	0	57	Oregon.
Pennsylvania	48	56	101	142	160	65	59	53	21	37	43	17	802	Pennsylvania.
Porto Rico	63	64	70	45	65	32	41	18	14	10	3	.....	425	Porto Rico.
Rhode Island	2	13	14	20	24	20	13	9	5	2	5	1	128	Rhode Island.
South Carolina	14	16	15	9	8	9	1	2	1	3	.....	3	81	South Carolina.
South Dakota	.....	2	5	2	9	4	2	4	.....	.....	2	3	33	South Dakota.
Texas	123	268	297	176	55	47	19	6	1	13	2	2	1,009	Texas.
Utah	2	4	7	10	6	1	1	2	1	.....	.....	.....	34	Utah.
Vermont	2	.....	2	.....	1	1	.....	3	1	3	2	.....	15	Vermont.
Washington	6	15	25	18	15	12	1	1	3	3	0	3	102	Washington.
Wisconsin	1	5	18	13	29	16	7	2	3	1	2	3	100	Wisconsin.
Wyoming	.....	1	1	.....	.....	2	2	.....	.....	.....	.....	.....	6	Wyoming.

Measles—Average number of cases reported per annum and average indicated morbidity rates, 1913–1917; cases reported, deaths registered, and indicated morbidity, mortality, and fatality rates. 1918.

State.	Estimated population July 1, 1918.	Average.			1918					State.
		Years.	Cases reported per annum.	Cases per 1,000 inhabitants.	Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
Alabama	2,395,270	1915–1917—3 years	6,915	3.0	6,220	2.6	470	0.196	7.6	Alabama.
Arizona	272,034				162	.6	37	.136	22.8	Arizona.
Arkansas	1,792,965	1917—1 year	7,845	4.4	5,335	3.0	336	.187	6.3	Arkansas.
California	3,119,412	1913–1917—5 years	9,997	3.5	23,194	7.4	154	.049	.7	California.
Colorado	1,014,581	1914, 1916, 1917—3 years	6,319	6.6	2,080	2.1				Colorado.
Connecticut	1,286,268	1913–1917—5 years	6,518	5.3	5,450	4.2	85	.066	1.6	Connecticut.
Delaware	216,941						14	.065		Delaware.
District of Columbia	401,681	1913–1917—5 years	3,010	8.4	7,001	17.4	48	.119	.7	District of Columbia.
Florida	938,877				2,187	2.3	137	.146	6.3	Florida.
Hawaii	223,419	1913–1917—5 years	643	3.0			11	.049		Hawaii.
Illinois	6,317,734	1913, 1914, 1917—3 years	32,199	5.3	7,575	1.2	341	.054	4.5	Illinois.
Indiana	2,854,167	1914–1917—4 years	18,211	6.5	5,583	2.0	120	.042	2.1	Indiana.
Iowa	2,224,771				1,198	.5	214	.096	17.9	Iowa.
Kansas	1,874,195	1913–1917—5 years	11,002	6.1	10,793	5.8	313	.167	2.9	Kansas.
Kentucky	2,408,547						341	.142		Kentucky.
Louisiana	1,884,778	1914–1917—4 years	3,866	2.1	3,525	1.9	254	.135	7.2	Louisiana.
Maine	782,191	1916–1917—2 years	2,082	2.7	1,647	2.1	103	.132	6.3	Maine.
Maryland	1,384,539	1915–1917—3 years	9,393	6.9	14,660	10.6	155	.112	1.1	Maryland.
Massachusetts	3,832,790	1913, 1916, 1917—3 years	25,822	7.0	29,212	7.6	519	.135	1.8	Massachusetts.
Michigan	3,133,678	1913–1917—5 years	9,076	3.0	5,906	1.9	259	.083	4.4	Michigan.
Minnesota	2,345,287	do	5,864	2.6	3,727	1.6	89	.038	2.4	Minnesota.
Mississippi	2,001,466	1914–1917—4 years	18,008	9.3	42,045	21.0	732	.366	1.7	Mississippi.
Missouri	3,448,498						60	.017		Missouri.
Montana	486,376	1913, 1914, 1916, 1917—4 years	3,025	6.8	1,288	2.6				Montana.
Nebraska	1,296,877				1,584	1.2	13	.010	.8	Nebraska.
Nevada	114,742	1913, 1917—2 years	949	9.2						Nevada.
New Jersey	3,080,371				28,437	9.2	523	.170	1.8	New Jersey.
New York	10,646,989	1913–1917—5 years	60,697	6.0	74,395	7.0	1,293	.121	1.7	New York.
North Carolina	2,468,025				8,069	3.3				North Carolina.
North Dakota	791,437	1917—1 year	1,135	1.5	615	.8	7	.009	1.1	North Dakota.
Ohio	5,273,814	1914–1917—4 years	29,379	5.7	14,065	2.7	270	.051	1.9	Ohio.
Oklahoma	2,377,629	1913, 1915, 1917—3 years	5,009	2.4			254	.107		Oklahoma.
Oregon	888,243	1913–1917—5 years	2,288	2.8	4,742	5.3	57	.064	1.2	Oregon.
Pennsylvania	8,798,067	1916, 1917–2 years	65,420	7.6	51,836	5.9	802	.091	1.5	Pennsylvania.
Porto Rico	1,247,677	1917—1 year	7,001	5.7	1,746	1.4	425	.341	24.3	Porto Rico.

Rhode Island	637,415	1914, 1916, 1917—3 years	1,223	2.0	3,647	5.7	128	.201	3.5	Rhode Island.
South Carolina	1,660,934	1913-1917—5 years	2,792	1.7	2,245	1.4	81	.049	3.6	South Carolina.
South Dakota	735,434	1913, 1914, 1917—3 years	1,327	2.0	1,320	1.8	33	.045	2.5	South Dakota.
Texas	4,601,279	1917—1 year	4,746	1.1	4,356	.9	1,009	.219	23.2	Texas.
Utah	453,648	1913-1915, 1917—4 years	7,011	16.6	5,274	11.6	34	.075	.6	Utah.
Vermont	366,192	1914-1917—4 years	3,442	9.5	1,086	3.0	15	.041	1.4	Vermont.
Virginia	2,234,030	1915-1917—3 years	17,749	8.1	20,546	9.2				Virginia.
Washington	1,660,578	1913-1917—5 years	9,036	6.1	5,166	3.1	102	.061	2.0	Washington.
West Virginia	1,439,165	1917—1 year	3,922	2.8	1,438	1.0				West Virginia.
Wisconsin	2,553,983	1913-1917—5 years	7,689	3.1	19,376	7.6	100	.039	.5	Wisconsin.
Wyoming	190,380	do	539	3.1	1,033	5.4	6	.032	.6	Wyoming.

Poliomyelitis (infantile paralysis)—Monthly averages of cases reported during the years for which data are available, 1913–1917.

State.	Years.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Average per year.	State.
Alabama	1913, 1915–1917—4 years	1	1	1	2	2	4	23	18	5	3	2	2	64	Alabama.
Arizona	1914, 1916—2 years	(1)	0	0	0	0	0	(1)	(1)	1	1	0	0	3	Arizona.
Arkansas	1917—1 year	2	0	0	0	0	1	1	2	2	0	0	0	8	Arkansas.
California	1913–1917—5 years	5	3	2	3	2	5	9	10	8	12	12	10	81	California.
Colorado	1916, 1917—2 years	0	0	(1)	0	0	(1)	1	1	3	4	2	0	12	Colorado.
Connecticut	1913–1917—5 years	1	1	1	2	2	1	34	76	58	24	8	3	211	Connecticut.
District of Columbia	do	(1)	(1)	(1)	(1)	(1)	0	1	5	2	2	1	(1)	13	District of Columbia.
Hawaii	1913–1915, 1917—4 years	0	(1)	0	(1)	(1)	0	0	(1)	0	(1)	(1)	(1)	3	Hawaii.
Idaho	1913—1 year	0	0	1	0	0	3	0	3	1	1	0	1	10	Idaho.
Illinois	1913, 1914, 1917—3 years	10	12	11	13	8	9	11	37	121	101	31	10	374	Illinois.
Indiana	1913–1917—5 years	3	3	3	2	1	2	12	19	19	20	7	2	93	Indiana.
Iowa	1913, 1914, 1916, 1917—4 years	2	2	1	1	2	2	11	31	44	15	8	2	121	Iowa.
Kansas	1913–1917—5 years	2	(1)	(1)	(1)	1	5	11	11	12	13	7	4	68	Kansas.
Louisiana	1914–1917—4 years	1	1	1	3	1	2	7	3	2	1	2	2	26	Louisiana.
Maine	1916–17—2 years	(1)	0	0	1	(1)	0	(1)	8	28	22	16	3	80	Maine.
Maryland	1915–1917—3 years	4	1	1	2	2	2	16	38	43	44	14	2	169	Maryland.
Massachusetts	1913, 1916, 1917—3 years	8	3	6	4	6	9	51	117	254	267	76	20	821	Massachusetts.
Michigan	1913–1917—5 years	4	3	3	2	2	4	14	44	50	33	9	5	173	Michigan.
Minnesota	do	3	2	2	2	3	7	52	77	55	26	9	3	241	Minnesota.
Mississippi	1914–1917—4 years	6	9	12	7	13	19	19	14	9	7	7	9	131	Mississippi.
Montana	1913, 1914, 1916, 1917—4 years	0	0	0	(1)	(1)	2	4	9	9	7	3	(1)	35	Montana.
Nevada	1912, 1915—2 years	(1)	(1)	0	0	(1)	(1)	0	(1)	0	(1)	(1)	0	3	Nevada.
New Jersey	1913–1917—5 years	4	2	5	3	4	5	133	430	199	58	11	3	857	New Jersey.
New York	do	14	9	9	12	12	85	835	1,198	491	171	44	16	2,896	New York.
North Dakota	1917—1 year	0	0	0	0	0	1	0	7	5	11	10	2	36	North Dakota.
Ohio	1914–1917—4 years	8	8	5	7	7	11	47	94	96	48	18	8	357	Ohio.
Oklahoma	1917—1 year	1	1	2	0	1	1	9	1	2	2	0	0	20	Oklahoma.
Oregon	1913, 1915–1917—4 years	0	(1)	(1)	(1)	0	(1)	0	1	2	8	2	(1)	15	Oregon.
Pennsylvania	1916, 1917—2 years	9	7	14	8	5	11	88	443	462	226	69	26	1,368	Pennsylvania.
Rhode Island	1917—1 year	0	0	0	0	0	1	1	1	3	2	1	0	9	Rhode Island.
South Carolina	1914–1917—4 years	(1)	(1)	2	(1)	1	1	5	15	7	3	2	2	40	South Carolina.
South Dakota	1913, 1917—2 years	0	1	(1)	0	1	1	1	4	6	4	2	(1)	21	South Dakota.
Texas	1915, 1917—2 years	1	0	(1)	(1)	2	1	(1)	(1)	3	0	(1)	0	9	Texas.
Vermont	1914–1917—4 years	2	(1)	1	(1)	0	11	11	35	50	26	5	3	145	Vermont.
Virginia	1913, 1915–1917—4 years	15	15	12	17	17	15	35	45	40	30	21	9	271	Virginia.
West Virginia	1917—1 year	89	13	7	3	1	2	54	72	59	16	10	6	332	West Virginia.
Washington	1913–1916—4 years	(1)	(1)	1	1	0	(1)	1	5	5	2	1	2	20	Washington.
Wisconsin	1913–1917—5 years	3	(1)	(1)	1	1	2	6	39	41	25	7	4	130	Wisconsin.
Wyoming	1916, 1917—2 years	0	0	0	0	0	0	(1)	1	1	0	(1)	(1)	4	Wyoming.

[1] Less than one.

Cases of poliomyelitis (infantile paralysis) reported, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	2	0	1	3	2	0	0	1	2	0	2	2	15	Alabama.
Arkansas	0	1	1	0	0	1	3	0	0	0	0	0	6	Arkansas.
California	10	2	4	7	7	6	5	10	5	9	8	2	75	California.
Colorado	1	1						2	2				6	Colorado.
Connecticut	1	2	1	2	2		1	14	21	7	2		53	Connecticut.
District of Columbia	0	0	0	0	0	0	0	0	2	0	0	0	2	District of Columbia.
Florida			1	3	1	1							6	Florida.
Illinois	10	4	17	21	18	16	43	73	79	18	2	2	303	Illinois.
Indiana	6	2	4	1	3	5	11	16	17	1	1	1	68	Indiana.
Iowa	2	2	4	0	1	7	75	36	18	29	1	1	176	Iowa.
Kansas	1		4	1	2	1	3	4	9	2	1	2	30	Kansas.
Louisiana	2	0	2	1	0	2	5	1	19	3	2	2	39	Louisiana.
Maine	0	0	0	1	0	0	1	2	1	0	0	0	5	Maine.
Maryland	0	0	1	3	4	12	15	16	23	12	3	1	90	Maryland.
Massachusetts	5	3	6	6	6	6	10	20	20	7	7	3	99	Massachusetts.
Michigan	2	1	4	3	3	12	12	30	26	9		1	103	Michigan.
Minnesota	1	2	0	3	2	8	11	38	13	3	1	0	82	Minnesota.
Mississippi	3	2	5	2	3	3	12	2	5	6	11	3	57	Mississippi.
Montana		3	2	2		1							8	Montana.
Nebraska			2	1			1	3	1	2			10	Nebraska.
New Jersey	1	4	5	3	2	2	4	9	10	2	0	1	43	New Jersey.
New York	4	5	10	13	4	19	38	46	70	16	4	4	233	New York.
North Carolina	1	1	3		3	2	3	3		1	3	2	22	North Carolina.
North Dakota	1				2	3	7	9	3	1			26	North Dakota.
Ohio	7	6	8	11	6	16	31	51	6	6	3	1	152	Ohio.
Oregon	0	0	0	2	0	0	1	0	0	0	1	0	4	Oregon.
Pennsylvania	3	7	11	7	5	13	40	83	100	25	5	3	302	Pennsylvania.
Rhode Island	0	1	0	0	0	0	0	4	7	0	0	0	12	Rhode Island.
South Carolina					1	2	1						4	South Carolina.
South Dakota	1			3		1	2	1	1	15			24	South Dakota.
Texas	0	2	1	2	4	9	12	6	3	1	5	1	46	Texas.
Utah										1			1	Utah.
Vermont						1	3	2					6	Vermont.
Virginia	1	4	20	4	1	2	12	12	12	4	5	5	82	Virginia.
Washington	3			4	2	1		8	2	1	1	2	24	Washington.
West Virginia	2	1	0	0	3	5	6	3	7	1	2	0	30	West Virginia.
Wisconsin	4	14	50	28	11	8	41	47	51	8	2	4	268	Wisconsin.
Wyoming						1			1				2	Wyoming.

Deaths registered as due to poliomyelitis (infantile paralysis), 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	2	0	1	3	2	0	0	1	1	0	0	2	12	Alabama.
Arkansas	3	1	2	1	0	1	3	0	1	1	0	1	14	Arkansas.
California	5	1	1	2				4			2	3	18	California.
Connecticut						2		2	2	1	1		8	Connecticut.
Florida			1		1					1	3	1	7	Florida.
Illinois	13	8	9	9	9	16	13	21	24	10	7	5	144	Illinois.
Indiana	2		2	1	3	5	2	5	5	4		5	34	Indiana.
Iowa	0	1	3	0	1	2	13	8	6	5	3	0	42	Iowa.
Kansas	2	0	0	0	0	1	3	1	1	1	1	1	11	Kansas.
Kentucky	2	2	3	1	1	1	15	10	4	1	0	0	40	Kentucky.
Louisiana	2	1	0	1	1	2	0	1	3	1	0	0	12	Louisiana.
Maine			1		1		1	1	1		2		7	Maine.
Maryland	0	0	1	0	1	2	0	3	3	4	2	0	16	Maryland.
Massachusetts	3	1	2	3	2	1	2	12	6	1	2	3	38	Massachusetts.
Michigan	1	3	2	5	3	4	7	10	10	4	4	2	55	Michigan.
Minnesota	2	0	0	1	1	3	4	5	5	3	1	1	26	Minnesota.
Nebraska	1	2	1	2	0	1	0	1	0	0	0	0	8	Nebraska.
New Jersey			2	1	1	2	4	1		1			12	New Jersey.
New York	0	6	5	5	2	8	4	11	9	4	2	2	58	New York.
North Dakota							4	1				3	8	North Dakota.
Ohio	1	2	5	2	5	3	3	12	14	3	3	2	55	Ohio.
Oklahoma	0	0	0	2	2	1	1	2	0	0	1	1	10	Oklahoma.
Oregon	0	0	0	1	0	0	0	0	0	0	0	0	1	Oregon.
Pennsylvania	3	5	5	2	4	5	10	24	18	9	1	4	90	Pennsylvania.
Rhode Island	1	2				1		1				1	6	Rhode Island.
South Carolina						2		2	4	1			9	South Carolina.
South Dakota				1					1	1			3	South Dakota.
Texas	2	1	5	4	0	1	5	1	5	5	2	4	35	Texas.
Utah										1			1	Utah.
Vermont									1				1	Vermont.
Washington	0	1	0	2	1	0	0	0	2	0	1	0	7	Washington.
Wisconsin	2		18	8	4	5	7	18	15	6	1	3	87	Wisconsin.
Wyoming						1							1	Wyoming.

Poliomyelitis (infantile paralysis)—Average number of cases reported per annum and average indicated morbidity rates, 1913–1917; cases reported, deaths registered, and indicated morbidity, mortality, and fatality rates, 1918.

State.	Estimated population July 1, 1918.	Average.			1918					State.
		Years.	Cases reported per annum.	Cases per 1,000 inhabitants.	Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
Alabama	2,335,270	1913; 1915-1917—4 years	64	0.028	15	0.006	12	0.005	80.0	Alabama.
Arizona	272,034	1914, 1916—2 years	3	.012			0			Arizona.
Arkansas	1,792,965	1917—1 year	8	.005	6		14	.008		Arkansas.
California	3,119,412	1913-1917—5 years	81	.028	75	.024	18	.006	24.0	California.
Colorado	1,014,581	1916, 1917—2 years	12	.012	6	.006				Colorado.
Connecticut	1,286,268	1913-1917—5 years	211	.172	53	.041	8	.006	15.1	Connecticut.
District of Columbia	401,681	do	13	.036	2	.005				District of Columbia.
Florida	938,877				6		7	.007		Florida.
Hawaii	223,419	1913-1915, 1917—4 years	3	.014			0			Hawaii.
Idaho	461,766	1913—1 year	10	.026						Idaho.
Illinois	6,317,734	1913, 1914, 1917—3 years	374	.062	303	.048	144	.023	47.5	Illinois.
Indiana	2,854,167	1913-1917—5 years	93	.033	68	.024	34	.012	50.0	Indiana.
Iowa	2,224,771	1913, 1914, 1916, 1917—4 years	121	.054	176	.079	42	.019	23.9	Iowa.
Kansas	1,874,195	1913-1917—5 years	68	.038	30	.016	11	.006	36.7	Kansas.
Kentucky	2,408,547						40	.017		Kentucky.
Louisiana	1,884,778	1914-1917—4 years	26	.014	39	.021	12	.006	30.8	Louisiana.
Maine	782,191	1916, 1917—2 years	80	.103	5		7	.009		Maine.
Maryland	1,384,539	1915-1917—3 years	169	.124	90	.065	16	.012	17.8	Maryland.
Massachusetts	3,832,790	1913, 1916, 1917—3 years	821	.223	99	.026	38	.010	38.4	Massachusetts.
Michigan	3,133,678	1913-1917—5 years	173	.057	103	.033	55	.018	53.4	Michigan.
Minnesota	2,345,287	do	241	.107	82	.035	26	.011	31.7	Minnesota.
Mississippi	2,001,466	1914-1917—4 years	131	.068	57	.028	9	.004	15.8	Mississippi.
Missouri	3,448,498						29	.008		Missouri.
Montana	486,376	1913, 1914, 1916, 1917—4 years	35	.078	8	.016				Montana.
Nebraska	1,296,877				10	.008	8	.006	80.0	Nebraska.
Nevada	114,742	1913, 1915—2 years	3	.030						Nevada.
New Jersey	3,080,371	1913-1917—5 years	857	.297	43	.014	12	.004	27.9	New Jersey.
New York	10,646,989	do	2,896	.287	233	.022	58	.005	24.9	New York.
North Carolina	2,468,025				22	.009				North Carolina.
North Dakota	791,437	1917—1 year	36	.047	26	.033	8	.010	30.8	North Dakota.
Ohio	5,273,814	1914-1917—4 years	357	.070	152	.029	55	.010	36.2	Ohio.
Oklahoma	2,377,629	1917—1 year	20	.009			10	.004		Oklahoma.
Oregon	888,243	1913, 1915-1917—4 years	15	.018	4	.005	1	.001	25.0	Oregon.
Pennsylvania	8,798,067	1916, 1917—2 years	1,368	.159	302	.034	90	.010	29.8	Pennsylvania.

Poliomyelitis (infantile paralysis)—Average number of cases reported per annum and average indicated morbidity rates, 1913–1917; cases reported, deaths registered, and indicated morbidity, mortality, and fatality rates, 1918—Continued.

State.	Estimated population July 1, 1918.	Average.			1918					State.
		Years.	Cases reported per annum.	Cases per 1,000 inhabitants.	Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
Rhode Island	637,415	1917—1 year	9	0.014	12	0.019	6	0.009	050.0	Rhode Island.
South Carolina	1,660,934	1914–1917—4 years	40	.025	4		9	.005		South Carolina.
South Dakota	735,434	1913, 1917—2 years	21	.031	24	.033	3	.004	12.5	South Dakota.
Texas	4,601,279	1915, 1917—2 years	9	.002	46	.010	35	.008	76.1	Texas.
Utah	453,648				1	.002	1	.002		Utah.
Vermont	366,192	1914–1917—4 years	145	.399	6	.016	1	.003	16.3	Vermont.
Virginia	2,234,030	1913, 1915–1917—4 years	271	.125	82	.037				Virginia.
Washington	1,660,578	1913–1916—4 years	20	.014	24	.014	7	.004	29.2	Washington.
West Virginia	1,439,165	1917—1 year	332	.235	30	.021				West Virginia.
Wisconsin	2,553,983	1913–1917—5 years	130	.053	268	.105	87	.034	32.5	Wisconsin.
Wyoming	190,380	1916, 1917—2 years	4	.022	2	.011	1	.005	50.0	Wyoming.

Rabies in man—Cases reported and deaths registered, 1918.

State.	Estimated population July 1, 1918.	Cases.	Deaths.	State.	Estimated population July 1, 1918.	Cases.	Deaths.
Alabama	2,395,270	3	3	Ohio	5,273,814	3	10
Illinois	6,317,734	1	2	Pennsylvania	8,798,067		3
Kentucky	2,408,547		1	Porto Rico	1,247,677		1
Louisiana	1,884,778	5	5	South Carolina	1,660,934		2
Missouri	3,448,498		3	Texas	4,601,279		6
Nebraska	1,296,877		1	Utah	453,648	1	1
New Jersey	3,080,371	2	3	Wisconsin	2,553,983		1

Cases of rabies in animals reported, 1918.

State.	Cases.	State.	Cases.	State	Cases.	State.	Cases.
Arkansas	30	Maryland	37	Mississippi	109	South Carolina	1
Connecticut	96	Massachusetts	26	Oklahoma	78	Virginia	6
District of Columbia	20	Minnesota	7	Oregon	11	Wisconsin	27
Kansas	9						

Cases of Rocky Mountain spotted fever reported, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
California					3								3	California.
Montana				1	4								5	Montana.
Oregon			1		1				1				3	Oregon.
Utah				1	2		2						5	Utah.
Wyoming					3	1							4	Wyoming.

Deaths registered as due to Rocky Mountain spotted fever, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Oregon					1				1				2	Oregon.
Utah				1	2		2						5	Utah.
Wyoming					1	2							3	Wyoming.

Rocky Mountain spotted fever—Cases reported, deaths registered, and indicated morbidity, mortality, and fatality rates, 1918.

State.	Estimated population July 1, 1918.	Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	State.	Estimated population July 1, 1918.	Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
California	3,119,412	3	0.001				Utah	453,648	5	0.011	5	0.011	
Montana	486,376	5	.010				Wyoming	190,380	4	.021	3	.015	75.0
Oregon	888,243	3	.003	2	0.002	66.7							

Scarlet fever—Monthly averages of cases reported during the years for which data are available, 1913–1917.

State.	Years.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Average per year.	State.
Alabama	1913, 1915–1917—4 years	48	37	57	34	31	24	28	51	89	118	99	65	681	Alabama.
Arizona	1914, 1916—2 years	8	2	11	7	5	2	.....	.....	2	1	1	7	46	Arizona.
Arkansas	1917—1 year	27	12	30	2	8	2	6	28	11	27	35	66	254	Arkansas.
California	1913–1917—5 years	384	332	328	257	254	162	136	121	158	323	353	359	3,147	California.
Colorado	1914, 1916, 1917—3 years	132	135	93	101	81	58	36	26	28	59	84	126	959	Colorado.
Connecticut	1913–1917—5 years	234	199	237	222	167	132	63	44	61	106	148	157	1,770	Connecticut.
District of Columbia	do	69	67	72	62	46	34	17	11	24	42	45	66	555	District of Columbia.
Hawaii	do	3	2	1	3	7	4	8	7	4	3	4	0	46	Hawaii.
Idaho	1913—1 year	31	33	8	18	5	21	8	.....	1	.....	27	55	207	Idaho.
Illinois	1913, 1914, 1917—3 years	1,960	1,884	2,329	2,451	1,524	924	488	299	388	527	642	745	14,161	Illinois.
Indiana	1913–1917—5 years	562	554	518	442	312	195	110	99	194	397	512	532	4,427	Indiana.
Iowa	1913, 1914, 1916, 1917—4 years	129	166	214	169	144	52	35	22	37	82	107	141	1,298	Iowa.
Kansas	1913–1917—5 years	189	217	262	209	198	71	49	48	59	169	222	224	1,917	Kansas.
Louisiana	1914–1917—4 years	16	13	13	15	13	9	4	9	16	26	35	25	194	Louisiana.
Maine	1916, 1917—2 years	10	13	9	14	9	5	16	20	27	14	12	31	180	Maine.
Maryland	1915–1917—3 years	291	221	221	204	164	112	74	43	81	133	185	176	1,908	Maryland.
Massachusetts	1913, 1916, 1917—3 years	860	771	872	720	664	455	237	165	239	416	570	792	6,761	Massachusetts.
Michigan	1913–1917—5 years	693	705	695	778	553	358	178	142	207	330	448	571	5,658	Michigan.
Minnesota	do	480	528	666	617	423	281	141	124	130	219	286	377	4,272	Minnesota.
Mississippi	1914–1917—4 years	36	47	17	30	28	23	18	35	56	80	61	57	488	Mississippi.
Montana	1913, 1914, 1916, 1917—4 years	76	59	85	97	86	56	34	34	39	81	112	108	867	Montana.
Nevada	1913, 1915, 1917—3 years	23	17	20	10	13	7	9	4	4	10	32	21	170	Nevada.
New Jersey	1913–1917—5 years	615	580	728	648	553	437	199	114	135	244	337	379	4,969	New Jersey.
New York	do	1,746	1,833	2,290	2,214	1,942	1,249	649	352	422	691	984	1,228	15,600	New York.
North Dakota	1917—1 year	37	62	88	87	48	32	15	22	12	35	20	71	529	North Dakota.
Ohio	1914–1917—4 years	1,130	976	1,020	924	731	443	257	235	421	799	1,008	984	8,928	Ohio.
Oklahoma	1913, 1915, 1917—3 years	165	196	139	74	54	30	35	73	126	161	257	206	1,516	Oklahoma.
Oregon	1913–1917—5 years	62	54	69	67	69	42	37	19	23	41	69	59	611	Oregon.
Pennsylvania	1916, 1917—2 years	1,008	887	960	888	784	525	306	269	353	649	806	825	8,260	Pennsylvania.
Porto Rico	1914, 1917—2 years	1	0	0	0	0	(1)	(1)	0	0	0	0	0	2	Porto Rico.
Rhode Island	1914, 1916, 1917—3 years	98	81	116	93	100	55	38	23	34	77	85	67	867	Rhode Island.
South Carolina	1913–1917—5 years	19	10	10	12	6	11	16	12	55	51	43	21	256	South Carolina.
South Dakota	1913, 1914, 1917—3 years	66	80	91	60	62	32	23	14	16	43	40	39	566	South Dakota.
Texas	1915, 1917—2 years	122	126	77	61	37	63	51	28	71	200	291	337	1,464	Texas.
Utah	1913–1915, 1917—4 years	165	176	137	113	106	65	41	23	40	91	147	138	1,242	Utah.
Vermont	1914–1917—4 years	58	83	66	56	57	37	36	24	18	36	49	59	579	Vermont.
Virginia	do	237	177	114	84	57	52	33	63	120	212	267	184	1,600	Virginia.
Washington	1913–1917—5 years	93	82	88	70	55	47	32	30	39	69	93	88	786	Washington.
West Virginia	1917—1 year	70	47	52	38	30	14	19	27	61	64	105	59	586	West Virginia.
Wisconsin	1913–1917—5 years	434	416	607	496	394	232	150	98	112	203	297	347	3,786	Wisconsin.
Wyoming	do	14	21	20	20	26	7	8	8	9	16	12	22	183	Wyoming.

[1] Less than 1.

Cases of scarlet fever reported, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	45	29	30	22	17	11	17	63	77	59	25	44	439	Alabama.
Arizona	29	15	5	8	4	3	2	3	6	2	3	1	81	Arizona.
Arkansas	79	67	46	19	63	6	24	19	17	9	16	24	389	Arkansas.
California	566	438	382	285	440	236	141	133	129	198	122	126	3,196	California.
Colorado	173	244	285	258	217	151	64	42	38	59	43	50	1,624	Colorado.
Connecticut	178	190	178	175	160	103	59	37	68	118	97	187	1,550	Connecticut.
District of Columbia	208	165	161	131	91	32	16	12	16	16	12	23	883	District of Columbia.
Florida	10	55	9	4	3	8	4	7	5	6	16	11	138	Florida.
Illinois	758	611	561	505	362	148	150	101	231	189	201	208	4,025	Illinois.
Indiana	694	593	557	500	291	159	89	94	156	164	163	210	3,670	Indiana.
Iowa	422	461	394	428	366	151	45	47	79	110	117	110	2,730	Iowa.
Kansas	548	464	576	533	346	152	57	47	92	134	90	79	3,118	Kansas.
Louisiana	32	8	13	9	9	7	5	17	9	10	10	21	150	Louisiana.
Maine	27	22	31	22	29	43	26	83	13	5	10	60	371	Maine.
Maryland	174	212	206	164	144	48	47	38	60	62	47	111	1,313	Maryland.
Massachusetts	609	537	540	626	487	287	200	122	177	225	287	393	4,490	Massachusetts.
Michigan	1,048	830	1,021	720	529	304	285	198	220	345	266	350	6,116	Michigan.
Minnesota	325	546	815	606	545	338	131	94	86	102	53	127	3,768	Minnesota.
Mississippi	113	23	26	82	41	23	28	22	57	50	48	55	568	Mississippi.
Montana	324	313	224	159	177	104	56	54	47	87	22	42	1,609	Montana.
Nebraska	171	217	143	192	199	52	292	26	39	33	25	40	1,429	Nebraska.
New Jersey	386	313	378	398	288	159	124	64	129	129	177	272	2,817	New Jersey.
New York	1,346	1,183	1,415	1,349	1,076	649	448	302	410	587	550	824	10,139	New York.
North Carolina	85	32	22	21	23	32	86	109	135	114	74	71	804	North Carolina.
North Dakota	129	175	134	94	68	37	14	6	10	2	12	8	689	North Dakota.
Ohio	1,010	1,167	954	876	701	400	263	213	367	571	382	395	7,299	Ohio.
Oregon	68	52	53	69	102	42	40	15	27	36	17	32	553	Oregon.
Pennsylvania	951	972	1,119	905	739	425	310	219	329	451	358	530	7,308	Pennsylvania.
Rhode Island	47	48	63	78	75	44	32	21	31	37	46	71	593	Rhode Island.
South Carolina	10	6	9	2	3	.....	19	9	8	15	6	4	91	South Carolina.
South Dakota	107	142	127	149	92	50	30	22	38	47	47	47	898	South Dakota.
Texas	210	166	238	196	63	33	23	34	31	29	9	13	1,045	Texas.
Utah	288	321	331	163	214	143	61	55	34	60	27	26	1,723	Utah.
Vermont	48	35	17	26	26	31	17	18	28	28	11	27	312	Vermont.
Virginia	102	114	82	82	66	31	15	29	31	68	49	38	707	Virginia.
Washington	182	343	442	384	417	363	202	150	135	144	46	68	2,876	Washington.
West Virginia	40	76	27	33	18	17	28	23	25	43	21	21	372	West Virginia.
Wisconsin	715	645	609	475	472	241	209	128	185	354	180	188	4,401	Wisconsin.
Wyoming	78	527	106	59	69	40	6	2	6	7	5	1	906	Wyoming.

Deaths registered as due to scarlet fever, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	2	1	0	0	1	0	1	2	2	0	3	0	12	Alabama.
Arizona	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	2	Arizona.
Arkansas	5	2	1	0	2	2	3	0	0	1	1	0	17	Arkansas.
California	5	8	6	11	4	3	3	4	.....	3	2	5	54	California.
Connecticut	1	3	4	11	4	4	1	2	.....	3	.....	2	35	Connecticut.
Delaware	0	0	1	0	0	0	0	1	1	0	0	0	3	Delaware.
District of Columbia	3	.....	5	5	1	.....	.....	1	.....	1	.....	.....	16	District of Columbia.
Florida	.....	3	1	.....	.....	.....	.....	.....	.....	.....	1	.....	5	Florida.
Illinois	32	19	21	22	9	8	6	4	4	10	12	7	154	Illinois.
Indiana	25	17	18	18	10	7	.....	5	3	3	6	5	117	Indiana.
Iowa	8	16	23	20	18	6	2	3	1	8	7	11	123	Iowa.
Kansas	11	11	14	15	4	5	2	0	2	4	2	2	72	Kansas.
Kentucky	5	2	2	6	5	2	0	3	6	3	7	2	43	Kentucky.
Louisiana	2	0	0	0	0	0	1	0	0	0	0	0	3	Louisiana.
Maine	2	3	1	1	.....	1	.....	.....	.....	4	.....	1	13	Maine.
Maryland	2	1	5	2	5	2	1	0	0	4	0	1	23	Maryland.
Massachusetts	14	9	10	9	4	6	3	3	4	5	4	5	76	Massachusetts.
Michigan	24	27	14	31	25	10	6	5	3	7	8	8	168	Michigan.
Minnesota	13	17	25	29	33	7	10	3	2	2	5	11	157	Minnesota.
Nebraska	2	6	8	8	8	0	4	2	2	0	0	0	40	Nebraska.
New Jersey	5	6	9	10	4	5	5	1	.....	3	8	1	57	New Jersey.
New York	50	34	37	39	35	26	16	7	7	20	11	18	300	New York.
North Dakota	3	3	4	4	2	.....	.....	1	1	.....	.....	1	19	North Dakota.
Ohio	13	15	28	16	20	7	8	4	7	25	10	17	170	Ohio.
Oklahoma	2	4	1	1	3	1	0	1	1	1	0	1	16	Oklahoma.
Oregon	1	3	2	2	1	2	0	3	0	0	1	0	15	Oregon.
Pennsylvania	18	23	18	27	18	3	7	3	4	22	15	16	174	Pennsylvania.
Porto Rico	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	Porto Rico.
Rhode Island	4	3	4	4	4	.....	4	1	.....	2	.....	2	28	Rhode Island.
South Carolina	.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	3	South Carolina.
South Dakota	3	4	8	.....	2	4	1	2	1	.....	.....	.....	25	South Dakota.
Texas	7	3	6	4	1	0	1	1	1	1	1	2	28	Texas.
Utah	4	6	4	11	3	4	2	4	1	5	2	1	47	Utah.
Vermont	1	.....	1	1	2	1	2	.....	1	.....	.....	1	10	Vermont.
Washington	2	4	17	15	9	7	4	3	1	5	0	4	71	Washington.
Wisconsin	22	22	24	26	24	7	10	6	11	12	5	10	179	Wisconsin.

Scarlet fever—Average number of cases reported per annum and average indicated morbidity rates, 1913–1917; cases reported, deaths registered, and indicated morbidity, mortality, and fatality rates, 1918.

State.	Estimated population July 1, 1918.	Average.			1918					State.
		Years.	Cases reported per annum.	Cases per 1,000 inhabitants.	Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
Alabama	2,395,270	1913, 1915-1917—4 years	681	0.3	439	0.2	12	0.005	2.7	Alabama.
Arizona	272,034	1914, 1916—2 years	46	.2	81	.3	2	.007	2.5	Arizona.
Arkansas	1,792,965	1917—1 year	254	.1	389	.2	17	.009	4.4	Arkansas.
California	3,119,412	1913-1917—5 years	3,147	1.1	3,196	1.0	54	.017	1.7	California.
Colorado	1,014,581	1914, 1916, 1917—3 years	959	1.0	1,624	1.6				Colorado.
Connecticut	1,286,268	1913-1917—5 years	1,770	1.4	1,550	1.2	35	.027	2.3	Connecticut.
Delaware	216,941						3	.014		Delaware.
District of Columbia	401,681	1913-1917—5 years	555	1.5	883	2.2	16	.040	1.8	District of Columbia.
Florida	938,877				138	.1	5	.005	3.6	Florida.
Hawaii	223,419	1913-1917—5 years	46	.2			0			Hawaii.
Idaho	461,766	1913—1 year	207	.5						Idaho.
Illinois	6,317,734	1913, 1914, 1917—3 years	14,161	2.3	4,025	.6	154	.024	3.8	Illinois.
Indiana	2,854,167	1913-1917—5 years	4,427	1.6	3,670	1.3	117	.041	3.2	Indiana.
Iowa	2,224,771	1913, 1914, 1916, 1917—4 years	1,298	.6	2,730	1.2	123	.055	4.5	Iowa.
Kansas	1,874,195	1913-1917—5 years	1,917	1.1	3,118	1.7	72	.038	2.3	Kansas.
Kentucky	2,408,547						43	.018		Kentucky.
Louisiana	1,884,778	1914-1917—4 years	194	.1	150	.1	3	.002	2.0	Louisiana.
Maine	782,191	1916, 1917—2 years	180	.2	371	.5	13	.017	3.5	Maine.
Maryland	1,384,539	1915-1917—3 years	1,908	1.4	1,313	.9	23	.017	1.8	Maryland.
Massachusetts	3,832,790	1913, 1916, 1917—3 years	6,761	1.8	4,490	1.2	76	.020	1.7	Massachusetts.
Michigan	3,133,678	1913-1917—5 years	5,658	1.9	6,116	2.0	168	.054	2.7	Michigan.
Minnesota	2,345,287	do	4,272	1.9	3,768	1.6	157	.067	4.2	Minnesota.
Mississippi	2,001,466	1914-1917—4 years	488	.3	568	.3	7	.003	1.2	Mississippi.
Missouri	3,448,498						70	.020		Missouri.
Montana	486,376	1913, 1914, 1916, 1917—4 years	867	1.9	1,609	3.3				Montana.
Nebraska	1,296,877				1,429	1.1	40	.031	2.8	Nebraska.
Nevada	114,742	1913, 1915, 1917—3 years	170	1.7						Nevada.
New Jersey	3,080,371	1913-1917—5 years	4,969	1.7	2,817	.9	57	.019	2.0	New Jersey.
New York	10,646,989	do	15,600	1.5	10,139	1.0	300	.028	3.0	New York.
North Carolina	2,468,025				804	.3				North Carolina.
North Dakota	791,437	1917—1 year	529	.7	689	.9	19	.024	2.8	North Dakota.
Ohio	5,273,814	1914-1917—4 years	8,928	1.7	7,299	1.4	170	.032	2.3	Ohio.
Oklahoma	2,377,629	1913, 1915, 1917—3 years	1,516	.7			16	.007		Oklahoma.
Oregon	888,243	1913-1917—5 years	611	.8	553	.6	15	.017	2.7	Oregon.
Pennsylvania	8,798,067	1916, 1917—2 years	8,260	1.0	7,308	.8	174	.020	2.4	Pennsylvania.

Scarlet fever—Average number of cases reported per annum and average indicated morbidity rates, 1913–1917; cases reported, deaths registered, and indicated morbidity, mortality, and fatality rates, 1918—Continued.

State.	Estimated population July 1, 1918.	Average.	Cases reported per annum.	Cases per 1,000 inhabitants.	1918					State.
		Years.			Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
Porto Rico	1,247,677	1914, 1917—2 years	2				1	0.001		Porto Rico.
Rhode Island	637,415	1914, 1916, 1917—3 years	867	1.4	593	0.9	28	.044	4.7	Rhode Island.
South Carolina	1,660,934	1913-1917—5 years	268	.2	91	.1	3	.002	3.3	South Carolina.
South Dakota	735,434	1913, 1914, 1917—3 years	566	.8	898	1.2	25	.033	2.8	South Dakota.
Texas	4,601,279	1915, 1917—2 years	1,464	.3	1,045	.2	28	.006	2.7	Texas.
Utah	453,648	1913-1915, 1917—4 years	1,242	2.9	1,723	3.8	47	.104	1.7	Utah.
Vermont	366,192	1914-1917—4 years	579	1.6	312	.9	10	.027	3.2	Vermont.
Virginia	2,234,930	do	1,600	.7	707	.3				Virginia.
Washington	1,660,578	1913-1917—5 years	786	.5	2,876	1.7	71	.043	2.5	Washington.
West Virginia	1,439,165	1917—1 year	586	.4	372	.3				West Virginia.
Wisconsin	2,553,983	1913-1917—5 years	3,786	1.5	4,401	1.7	179	.07	4.1	Wisconsin.
Wyoming	190,380	do	183	1.1	906	4.8				Wyoming.

Cases of septic sore throat reported, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Connecticut	6	6	1	2	86	1		1	1	1	2	6	113	Connecticut.
Illinois	9	6	10	5	3	6	2	1	6	10	4	10	72	Illinois.
Kansas	2		5	1	1	3		2	1	3	8	6	32	Kansas.
Louisiana	0	0	0	0	0	2	0	0	1	0	0	0	3	Louisiana.
Maryland	9	1	1	2	0	1	3	0	0	1	1	3	22	Maryland.
Massachusetts	16	12	13	19	10	12	3	2	2	4	4	10	107	Massachusetts.
Minnesota	0	0	0	0	0	0	0	1	0	0	0	0	1	Minnesota.
Nebraska			4	5	2	1							12	Nebraska.
New York	28	20	6	14	21	4	10	0	3	6	9	20	141	New York.
North Carolina					5	7	3	14	33	28	12	22	124	North Carolina.
Ohio									2				2	Ohio.
Rhode Island	0	1	0	3	1	2	0	0	0	1	1	1	10	Rhode Island.
South Carolina		22		10	35	23	1	22	1	13	2	11	146	South Carolina.

Deaths registered as due to septic sore throat, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Connecticut			1		1					1		1	4	Connecticut.
Illinois	7	6	12	4	5	4	3	5	10	9	3	7	75	Illinois.
Iowa	2	3	5	2	5	7	2	6	3	2	1	6	44	Iowa.
Kansas	1	2	4	3	5	0	0	2	0	0	3	2	22	Kansas.
Louisiana	0	1	3	2	2	3	3	4	2	2	2	1	25	Louisiana.
Maryland	0	0	1	0	0	1	0	0	1	0	1	1	5	Maryland.
Massachusetts	5	2	5	3	3	2	2				1	3	26	Massachusetts.
Nebraska	2	2	2	0	0	1	0	1	1	0	0	1	10	Nebraska.
New York	3	1		1		2	2						9	New York.
North Dakota		1	1										2	North Dakota.
Ohio	15	5	12	8	9	8	14	5	10	5	15	5	111	Ohio.
Rhode Island	1			1		1	1		1			1	6	Rhode Island.
South Carolina		1		1									2	South Carolina.

Septic sore throat—Cases reported, deaths registered, and indicated morbidity, mortality, and fatality rates, 1918.

State.	Estimated population July 1, 1918.	Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	State.	Estimated population July 1, 1918.	Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Connecticut	1,286,268	113	0.088	4	0.003	3.5	Nebraska	1,296,877	12	0.009	10	0.008	83.3
Illinois	6,317,734	72		75	.012		New York	10,646,989	141	.013	9	.001	6.4
Iowa	2,224,771			44	.020		North Carolina	2,468,025	124	.050			
Kansas	1,874,195	32	.017	22	.012	68.8	North Dakota	791,437			2	.003	
Louisiana	1,884,778	3		25	.013		Ohio	5,273,814	2		111	.021	
Maryland	1,384,539	22	.016	5	.004	22.7	Rhode Island	637,415	10	.016	6	.009	60.0
Massachusetts	3,832,790	107	.028	26	.007	24.3	South Carolina	1,660,934	140	.084	2	.001	1.4
Minnesota	2,345,287	1		0									

Smallpox—Monthly averages of cases reported during the years for which data are available, 1913–1917.

State.	Years.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Average per year.	State.
Alabama	1913, 1915-1917—4 years	98	93	86	77	65	52	25	16	6	21	24	61	624	Alabama.
Arkansas	1917—1 year	156	232	571	251	245	91	28	20	13	44	93	272	2,016	Arkansas.
California	1913-1917—5 years	68	74	64	65	44	29	19	21	19	16	25	31	475	California.
Colorado	1913, 1914, 1916, 1917—4 years	26	25	30	19	31	27	22	9	9	23	40	28	289	Colorado.
Connecticut	1913-1917—5 years	23	20	25	11	15	15	3	1	3	23	15	27	181	Connecticut.
District of Columbia	do	9	5	13	2	13	10	3	1	1	1	3	3	64	District of Columbia.
Florida	1913—1 year	246	211	217	113	94	88	71	29	8	54	17	18	1,166	Florida.
Idaho	do	73	96	27	42	8	139	23	17	30	6	32	116	609	Idaho.
Illinois	1913, 1914, 1917—3 years	438	520	580	434	472	255	184	73	81	184	247	348	3,819	Illinois.
Indiana	1913-1917—5 years	261	397	469	399	366	273	133	99	69	117	309	379	3,271	Indiana.
Iowa	1913, 1914, 1916, 1917—4 years	308	280	364	299	257	144	72	16	25	66	148	244	2,223	Iowa.
Kansas	1913-1917—5 years	174	212	306	263	234	168	67	22	27	74	202	250	1,999	Kansas.
Louisiana	1914-1917—4 years	108	94	89	94	55	22	23	9	5	16	40	92	647	Louisiana.
Maine	1917—1 year	0	0	0	5	12	44	52	12	7	41	228	199	600	Maine.
Maryland	1915-1917—3 years	9	7	4	18	16	3	4	0	0	0	8	18	87	Maryland.
Massachusetts	1913, 1916, 1917—3 years	4	3	11	11	13	21	2	3	2	4	7	4	85	Massachusetts.
Michigan	1913-1917—5 years	188	154	171	173	155	134	91	37	36	108	204	274	1,725	Michigan.
Minnesota	do	202	273	271	244	188	145	96	44	37	95	130	267	2,082	Minnesota.
Mississippi	1914-1917—4 years	216	222	213	251	165	92	43	41	50	61	83	204	1,641	Mississippi.
Montana	1913, 1914, 1915, 1917—4 years	130	111	93	95	81	85	57	35	32	47	109	116	991	Montana.
Nevada	1913, 1915, 1917—3 years	35	15	9	13	33	11	1	1	0	1	1	2	122	Nevada.
New Jersey	1913-1917—5 years	7	3	14	17	3	4	0	(1)	(1)	(1)	1	1	51	New Jersey.
New York	do	87	74	34	42	36	24	19	7	9	26	28	41	427	New York.
North Dakota	1913-1917—2 years	22	30	49	76	27	44	30	10	18	49	38	87	480	North Dakota.
Ohio	1913-1917—5 years	381	339	383	373	344	301	181	90	75	222	370	488	3,547	Ohio.
Oklahoma	1913, 1915, 1917—3 years	483	369	480	359	277	197	118	66	64	91	141	425	3,070	Oklahoma.
Oregon	1913-1917—5 years	68	68	59	57	41	36	27	14	7	10	47	26	460	Oregon.
Pennsylvania	1916, 1917—2 years	11	8	20	29	35	22	18	7	9	11	34	34	238	Pennsylvania.
Porto Rico	1917—1 year	1	11	13	40	8	1	4	0	3	1	3	0	85	Porto Rico.
South Carolina	1913-1917—5 years	63	43	58	69	38	32	16	10	3	11	15	25	383	South Carolina.
South Dakota	1913, 1914, 1917—3 years	117	141	176	136	102	78	42	24	20	31	94	103	1,064	South Dakota.
Texas	1913, 1915, 1917—3 years	234	232	302	247	164	104	63	21	21	32	108	190	1,718	Texas.
Utah	1913-1915, 1917—4 years	202	190	144	124	106	79	56	34	50	62	87	99	1,234	Utah.
Vermont	1913-1917—5 years	19	13	10	17	20	10	12	6	1	1	3	6	118	Vermont.
Virginia	do	249	210	212	182	136	84	57	37	22	39	53	98	1,379	Virginia.
Washington	do	107	76	97	90	86	70	38	25	21	36	40	50	730	Washington.
West Virginia	1917—1 year	5	4	8	40	21	30	37	21	20	36	95	96	413	West Virginia.
Wisconsin	1913-1917—5 years	285	217	211	207	158	104	78	62	35	93	151	257	1,858	Wisconsin.
Wyoming	do	8	17	8	2	9	7	10	7	2	4	4	3	81	Wyoming.

[1] Less than one.

Cases of smallpox reported, 1918.

State.	Jan.	Feb	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	537	1,000	761	408	255	132	85	75	45	31	22	296	3,647	Alabama.
Arizona	12	5	66	34	56	17	4	3	1	1	0	1	200	Arizona.
Arkansas	762	738	212	457	200	62	101	10	6	14	12	16	2,590	Arkansas.
California	42	89	111	81	172	97	97	45	52	119	97	67	1,069	California.
Colorado	175	176	250	239	266	133	92	43	52	63	89	102	1,680	Colorado.
Connecticut	3	2	21	12	12	11	32	1	.....	.....	.....	.....	94	Connecticut.
District of Columbia	7	2	1	5	11	4	6	5	0	3	4	0	48	District of Columbia.
Florida	6	11	10	3	8	6	6	3	2	1	1	2	59	Florida.
Illinois	742	744	645	557	571	189	103	73	26	42	36	114	3,842	Illinois.
Indiana	1,003	1,125	1,027	804	588	314	156	86	30	126	191	132	5,582	Indiana.
Iowa	650	569	559	414	399	220	121	54	47	79	109	86	3,307	Iowa.
Kansas	994	1,419	1,640	1,132	1,077	435	114	89	26	89	48	67	7,130	Kansas.
Louisiana	73	158	153	142	136	111	26	30	5	34	12	70	950	Louisiana.
Maine	92	103	124	29	22	102	50	15	2	19	7	20	585	Maine.
Maryland	16	12	17	82	19	12	0	12	18	9	15	7	219	Maryland.
Massachusetts	3	2	10	2	3	1	1	.....	2	.....	2	.....	27	Massachusetts.
Michigan	1,083	921	689	441	421	247	119	92	87	137	111	69	4,417	Michigan.
Minnesota	210	295	355	304	217	213	107	44	52	68	207	180	2,252	Minnesota.
Mississippi	631	690	622	662	413	160	90	41	57	58	114	63	3,601	Mississippi.
Montana	246	172	157	118	127	103	54	17	28	50	18	14	1,104	Montana.
Nebraska	451	567	606	640	545	323	139	40	269	152	78	96	3,906	Nebraska.
New Jersey	1	3	32	0	2	15	7	2	0	0	0	3	65	New Jersey.
New York	140	68	52	62	95	35	33	25	6	7	5	7	535	New York.
North Carolina	45	159	147	105	80	48	68	40	34	34	41	98	899	North Carolina.
North Dakota	57	52	72	51	31	47	11	3	9	2	8	2	345	North Dakota.
Ohio	2,098	1,642	1,676	1,276	1,214	628	419	198	121	226	460	269	10,227	Ohio.
Oregon	20	25	32	25	66	51	56	28	49	33	61	47	493	Oregon.
Pennsylvania	86	111	89	101	95	52	51	14	3	3	5	2	612	Pennsylvania.
Porto Rico	12	1	4	5	2	2	.....	1	.....	.....	.....	.....	27	Porto Rico.
Rhode Island	0	0	0	1	0	0	1	0	0	0	0	0	2	Rhode Island.
South Carolina	4	16	12	8	28	3	10	4	5	84	32	8	214	South Carolina.
South Dakota	124	131	113	138	141	151	77	18	16	48	26	67	1,050	South Dakota.
Texas	431	875	948	556	720	280	101	67	125	33	50	152	4,338	Texas.
Utah	377	312	236	203	222	236	130	124	107	126	91	99	2,263	Utah.
Vermont	5	7	6	19	3	1	5	0	1	7	0	1	55	Vermont.
Virginia	144	172	209	348	206	120	73	31	39	88	76	99	1,605	Virginia.
Washington	112	62	198	190	171	190	137	113	110	116	123	154	1,676	Washington.
West Virginia	220	301	184	218	145	63	35	22	24	16	24	14	1,266	West Virginia.
Wisconsin	459	334	313	369	224	240	159	63	63	193	99	76	2,592	Wisconsin.
Wyoming	6	45	55	36	51	20	8	9	19	35	17	11	312	Wyoming.

Deaths registered as due to smallpox, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	2	4	5	1	1	2	0	0	0	0	1	0	16	Alabama.
Arizona	2	0	1										3	Arizona.
Arkansas	0	7	2	5	3	1	0	1	0	1	1	0	21	Arkansas.
California		2					1						3	California.
Illinois	4	1	4	1			1			1		2	14	Illinois.
Indiana	3	7	2	3	3	1	3					2	24	Indiana.
Iowa	2	3	0	0	0	1	0	0	0	1	1	2	10	Iowa.
Kansas	3	4	7	8	3	0	0	0	0	0	0	1	26	Kansas.
Kentucky	2	4	0	0	1	1	0	0	0	0	0	0	8	Kentucky.
Louisiana	2	1	0	1	0	0	1	0	0	2	1	8	16	Louisiana.
Michigan		4	2	2	1	1					1		11	Michigan.
Minnesota	0	0	0	0	3	1	1	0	0	0	1	0	6	Minnesota.
Nebraska	0	1	2	0	1	0							4	Nebraska.
New York			1										1	New York.
North Dakota		1											1	North Dakota.
Ohio	5	4	2	1	2	3	4				1		22	Ohio.
Oklahoma	2	4	6	5	6	2	0	1	0	0	0	0	26	Oklahoma.
Pennsylvania		1			1								2	Pennsylvania.
Rhode Island				1									1	Rhode Island.
South Dakota				1		3	1						5	South Dakota.
Texas	25	22	11	6	9	11	3	3	8	11	8	7	124	Texas.
Utah	1	3					2			2	1	1	10	Utah.
Washington		1		1								2	4	Washington.
Wisconsin	1	1		2	1	1		1					7	Wisconsin.
Wyoming		1	1	2	2								6	Wyoming.

Smallpox—Average number of cases reported per annum and average indicated morbidity rates, 1913–1917; cases reported, deaths registered, and indicated morbidity, mortality, and fatality rates, 1918.

State.	Estimated population July 1, 1918.	Average.			1918.					State.
		Years.	Cases reported per annum.	Cases per 1,000 inhabitants.	Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
Alabama	2,395,270	1913, 1915-1917—4 years	624	0.27	3,647	1.52	16	0.007	0.4	Alabama.
Arizona	272,034				200	.74	3	.011	1.5	Arizona.
Arkansas	1,792,965	1917—1 year	2,016	1.14	2,590	1.44	21	.012	.8	Arkansas.
California	3,119,412	1913-1917—5 years	475	.17	1,069	.34	3	.001	.3	California.
Colorado	1,014,581	1913, 1914, 1916, 1917—4 years	289	.31	1,680	1.66				Colorado.
Connecticut	1,286,268	1913-1917—5 years	181	.15	94	.07				Connecticut.

District of Columbia	401,681	do	64	.18	48	.12				District of Columbia.
Florida	938,877	1913—1 year	1,166	1.41	59	.06	0			Florida.
Idaho	461,766	do	609	1.61						Idaho.
Illinois	6,317,734	1913, 1914, 1917—3 years	3,819	.63	3,842	.61	14	.002	.4	Illinois.
Indiana	2,854,167	1913-1917—5 years	3,271	1.17	5,582	1.96	24	.008	.4	Indiana.
Iowa	2,224,771	1913, 1914, 1916, 1917—4 years	2,223	1.00	3,307	1.49	10	.004	.3	Iowa.
Kansas	1,874,195	1913-1917—5 years	1,999	1.11	7,130	3.80	26	.014	.4	Kansas.
Kentucky	2,408,547						8	.003		Kentucky.
Louisiana	1,884,778	1914-1917—4 years	647	.36	950	.50	16	.008	1.4	Louisiana.
Maine	782,191	1917—1 year	600	.78	583	.75	0			Maine.
Maryland	1,384,539	1915-1917—3 years	87	.06	219	.16	0			Maryland.
Massachusetts	3,832,790	1913, 1916, 1917—3 years	85	.02	27	.01	0			Massachusetts.
Michigan	3,133,678	1913-1917—5 years	1,725	.87	4,417	1.41	11	.004	.2	Michigan.
Minnesota	2,345,287	do	2,082	.93	2,252	.96	6	.003	.3	Minnesota.
Mississippi	2,001,466	1914-1917—4 years	1,641	.85	3,601	1.80	16	.008	.4	Mississippi.
Missouri	3,448,498						63	.018		Missouri.
Montana	486,376	1913, 1914, 1916, 1917—4 years	991	2.22	1,104	2.27				Montana.
Nebraska	1,296,877				3,905	3.01	4	.003	.1	Nebraska.
Nevada	114,742	1913, 1915, 1917—3 years	122	1.19						Nevada.
New Jersey	3,080,371	1913-1917—5 years	51	.02	65	.02	0			New Jersey.
New York	10,646,989	do	427	.04	535	.05	1		.2	New York.
North Carolina	2,468,025				899	.36				North Carolina.
North Dakota	791,437	1913, 1917—2 years	480	.67	345	.44	1	.001	.3	North Dakota.
Ohio	5,273,814	1913-1917—5 years	3,547	.70	10,227	1.94	22	.004	.2	Ohio.
Oklahoma	2,377,629	1913, 1915, 1917—3 years	3,070	1.45			26	.011		Oklahoma.
Oregon	888,243	1913-1917—5 years	460	.57	493	.56	0			Oregon.
Pennsylvania	8,798,067	1916, 1917—2 years	238	.03	612	.07	2		.3	Pennsylvania.
Porto Rico	1,247,677	1917—1 year	85	.07	27	.02				Porto Rico.
Rhode Island	637,415				2		1	.002	50.0	Rhode Island.
South Carolina	1,660,934	1913-1917—5 years	383	.24	214	.13				South Carolina.
South Dakota	735,434	1913, 1914, 1917—3 years	1,064	1.58	1,050	1.43	5	.007	.5	South Dakota.
Texas	4,601,279	1913, 1915, 1917—3 years	1,718	.40	4,338	.94	124	.027	2.9	Texas.
Utah	453,648	1913-1915, 1917—4 years	1,234	2.93	2,263	4.99*	10	.022	.4	Utah.
Vermont	366,192	1913-1917—5 years	118	.33	55	.15	0			Vermont.
Virginia	2,234,030	do	1,379	.64	1,605	.72				Virginia.
Washington	1,660,578	do	730	.50	1,676	1.01	4	.002	.2	Washington.
West Virginia	1,439,165	1917—1 year	413	.29	1,266	.88				West Virginia.
Wisconsin	2,553,983	1913-1917—5 years	1,858	.75	2,592	1.01	7	.003	.3	Wisconsin.
Wyoming	190,380	do	81	.47	312	1.64	6	.032	1.9	Wyoming.

Tuberculosis (pulmonary)—Monthly averages of cases reported during the years for which data are available, 1916–17.

State.	Years.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Average per year.	State.
Alabama	1916, 1917—2 years	244	250	304	319	275	268	268	253	207	218	176	207	2,989	Alabama.
Arizona	1916—1 year	2	0	10	0	0	0	4	0	2	1	0	0	19	Arizona.
Connecticut	do	162	177	180	183	197	170	165	168	152	161	142	159	2,016	Connecticut.
Hawaii	1916, 1917—2 years	86	98	78	65	71	73	61	63	57	74	65	88	879	Hawaii.
Illinois	1917—1 year	59	1,235	1,204	973	834	1,089	1,306	1,237	1,239	444	1,552	1,538	12,710	Illinois.
Indiana	1916, 1917—2 years	247	283	301	276	274	251	227	225	213	195	190	179	2,861	Indiana.
Louisiana	1916—1 year	150	167	176	164	172	205	133	196	147	164	126	139	1,939	Louisiana.
Maryland	1916, 1917—2 years	266	259	289	272	346	262	323	299	262	224	209	235	3,246	Maryland.
Massachusetts	do	689	668	700	686	711	713	776	658	628	608	621	663	8,121	Massachusetts.
Minnesota	do	373	356	400	413	442	412	346	369	372	368	292	336	4,479	Minnesota.
Montana	do	24	34	12	29	27	19	14	21	31	23	21	12	267	Montana.
Nevada	1917—1 year	4	2	9	8	6	5	9	4	3	5	4	5	64	Nevada.
New York	1916, 1917—2 years	2,641	2,413	2,956	2,464	2,506	2,637	2,353	2,561	2,087	2,201	2,171	1,986	28,976	New York.
North Dakota	1917—1 year	5	13	8	7	20	21	26	17	11	16	11	19	174	North Dakota.
Oregon	1916—1 year	49	44	48	48	27	26	30	30	29	31	32	31	425	Oregon.
Rhode Island	1916, 1917—2 years	65	63	85	90	83	92	78	62	66	58	53	58	853	Rhode Island.
South Carolina	1917—1 year	40	28	23	17	24	27	30	12	17	11	19	19	267	South Carolina.
South Dakota	do	13	8	10	35	7	14	20	12	7	9	7	4	146	South Dakota.
Utah	do	5	6	5	6	7	4	3	4	7	6	2	5	60	Utah.
Vermont	1916, 1917—2 years	18	11	17	17	38	36	28	26	16	14	21	49	291	Vermont.
Washington	do	112	91	113	126	83	102	82	73	95	74	82	94	1,127	Washington.
West Virginia	1917—1 year	34	24	40	27	34	35	10	32	25	28	36	43	368	West Virginia.

Cases of tuberculosis (pulmonary) reported, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	227	258	233	283	268	245	218	212	192	188	169	195	2,688	Alabama.
District of Columbia	110	87	81	114	122	91	110	90	83	76	80	88	1,132	District of Columbia.
Indiana	201	140	425	326	300	364	316	271	237	147	141	208	3,076	Indiana.
Maryland	239	276	419	400	337	289	343	391	302	198	491	173	3,858	Maryland.
Massachusetts	637	677	814	779	886	764	614	606	570	441	525	528	7,841	Massachusetts.
Minnesota	380	274	278	343	417	291	338	323	300	138	266	263	3,611	Minnesota.
Nebraska	33	31	13	13	27	21	10	44	12	10	11	14	239	Nebraska.
New York	2,326	2,015	2,216	2,746	2,312	2,698	1,784	2,250	1,666	1,330	1,259	1,399	24,001	New York.
North Dakota	17	8	37	15	19	7	18	18	18	5	4	2	168	North Dakota.
Porto Rico	62	76	108	128	156	135	198	155	177	105	95	126	1,521	Porto Rico.
Rhode Island	65	71	60	96	60	73	82	66	65	17	54	36	745	Rhode Island.
South Dakota	13	12	11	30	22	13	22	25	26	14	34	39	261	South Dakota.
Utah	4	3	4	6	5	3	2	7	2	3	4	4	47	Utah.
Vermont	11	12	13	20	23	17	8	42	12	8	12	14	192	Vermont.
West Virginia	11	12	31	47	16	12	20	5	15	10	8	8	195	West Virginia.
Wisconsin	174	159	159	222	219	171	185	126	109	106	109	112	1,852	Wisconsin.

Deaths registered as due to tuberculosis (pulmonary), 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	206	223	233	251	238	215	194	188	156	192	168	172	2,436	Alabama.
Arizona	97	83	118	113	87	52	45	65	60	113	72	143	1,048	Arizona.
Arkansas	91	85	115	108	120	114	93	62	64	111	93	184	1,240	Arkansas.
California	403	419	498	506	434	386	380	376	358	479	464	507	5,210	California.
Connecticut	173	138	164	171	159	133	111	106	119	192	139	161	1,766	Connecticut.
District of Columbia	59	45	77	56	63	51	50	60	43	58	41	44	647	District of Columbia.
Florida	113	78	85	74	90	78	83	68	73	91	91	81	1,005	Florida.
Hawaii	44	27	30	28	29	31	46	39	30	32	33	35	404	Hawaii.
Illinois	617	587	804	847	700	606	522	491	505	659	635	646	7,619	Illinois.
Indiana	282	297	365	394	301	291	240	229	200	242	255	289	3,385	Indiana.
Iowa	142	108	116	129	116	116	95	81	90	97	122	123	1,335	Iowa.
Kansas	93	67	93	85	72	61	61	67	54	83	74	101	911	Kansas.
Kentucky	373	384	463	427	362	360	261	293	234	362	314	267	4,080	Kentucky.
Louisiana	277	240	280	319	278	268	240	211	204	281	219	223	3,040	Louisiana.
Maine	48	75	63	79	67	58	53	37	47	80	48	64	719	Maine.
Maryland	241	215	319	249	219	194	210	187	158	339	206	196	2,733	Maryland.
Massachusetts	337	402	443	527	423	388	369	334	393	400	398	446	5,010	Massachusetts.
Michigan	215	262	300	333	280	234	222	204	174	270	194	252	2,920	Michigan.
Minnesota	167	151	172	215	194	158	130	118	131	144	205	191	1,976	Minnesota.
Nebraska	40	50	59	38	31	59	27	31	30	37	31	47	480	Nebraska.
New York	1,382	1,287	1,658	1,442	1,284	1,145	1,016	1,001	929	1,522	1,235	1,139	15,040	New York.
North Dakota	19	26	24	32	24	23	16	18	16	17	21	34	270	North Dakota.
Ohio	576	544	695	681	598	497	451	419	391	517	530	546	6,445	Ohio.
Oklahoma	47	47	89	94	115	72	85	77	58	86	75	73	918	Oklahoma.
Oregon	43	50	65	54	46	47	42	26	20	42	50	32	517	Oregon.
Pennsylvania	859	910	1,094	1,097	883	767	725	758	724	1,252	939	915	10,923	Pennsylvania.
Porto Rico	199	201	201	201	199	107	255	252	197	198	242	256	2,508	Porto Rico.
Rhode Island	75	68	83	83	72	58	60	65	67	99	76	73	879	Rhode Island.
South Carolina	101	131	162	156	177	136	110	118	118	148	119	140	1,616	South Carolina.
South Dakota	13	12	11	30	22	13	22	25	26	14	34	39	261	South Dakota.
Texas	419	393	433	464	416	376	345	78	267	299	333	311	4,134	Texas.
Utah	14	13	18	23	10	11	12	12	12	22	18	15	180	Utah.
Vermont	26	20	23	34	38	27	22	19	26	32	23	22	312	Vermont.
Washington	82	91	109	106	111	83	93	70	58	92	94	98	1,087	Washington.
Wisconsin	140	163	194	233	203	154	182	166	139	150	143	198	2,065	Wisconsin.

Tuberculosis (pulmonary)—Average cases reported per annum and average indicated morbidity rates, 1916–1917; cases reported, deaths registered, indicated morbidity and mortality rates, and number of cases reported for each death registered, 1918.

State.	Estimated population July 1, 1918.	Average.			1918					State.
		Years.	Cases reported per annum.	Cases per 1,000 inhabitants.	Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Number of cases reported for each death registered.	
Alabama	2,395,270	1916, 1917—2 years	2,987	1.3	2,688	1.1	2,436	1.0	1.1	Alabama.
Arizona	272,034	1916—1 year	19	.1			1,048	3.9		Arizona.
Arkansas	1,792,965						1,240	.7		Arkansas.
California	3,119,412						5,210	1.7		California.
Connecticut	1,286,268	1916—1 year	2,016	1.6			1,766	1.4		Connecticut.
District of Columbia	401,681				1,132	2.8	647	1.6	1.7	District of Columbia.
Florida	938,877						1,005	1.1		Florida.
Hawaii	223,419	1916, 1917—2 years	879	4.0			404	1.8		Hawaii.
Illinois	6,317,734	1917—1 year	12,710	2.0			7,619	1.2		Illinois.
Indiana	2,854,167	1916, 1917—2 years	2,861	1.0	3,076		3,385	1.2		Indiana.
Iowa	2,224,771						1,335	.6		Iowa.
Kansas	1,874,195						911	.5		Kansas.
Kentucky	2,408,547						4,080	1.7		Kentucky.
Louisiana	1,884,778	1916—1 year	1,939	1.1			3,040	1.6		Louisiana.
Maine	782,191						719	.9		Maine.
Maryland	1,384,539	1916, 1917—2 years	3,246	2.4	3,858	2.8	2,733	2.0	1.4	Maryland.
Massachusetts	3,832,790	1916, 1917—2 years	8,121	2.2	7,841	2.0	5,010	1.3	1.6	Massachusetts.
Michigan	3,133,678						2,920	.9		Michigan.
Minnesota	2,345,287	1916, 1917—2 years	4,479	2.0	3,611	1.5	1,976	.8	1.8	Minnesota.
Mississippi	2,001,466						2,652	1.3		Mississippi.
Missouri	3,448,498						4,145	1.2		Missouri.
Montana	486,376	1916, 1917—2 years	267	.6						Montana.
Nebraska	1,296,877				239		480	.4		Nebraska.
Nevada	114,742	1917—1 year	64	.6						Nevada.
New York	10,646,989	1916, 1917—2 years	28,976	2.8	24,001	2.3	15,040	1.4	1.6	New York.
North Dakota	791,437	1917—1 year	174	.2	168		270	.3		North Dakota.
Ohio	5,273,814						6,445	1.2		Ohio.
Oklahoma	2,377,629						918	.4		Oklahoma.
Oregon	888,243	1916—1 year	425	.5			517	.6		Oregon.
Pennsylvania	8,798,067						10,923	1.2		Pennsylvania.
Porto Rico	1,247,677				1,521		2,508	2.0		Porto Rico.
Rhode Island	637,415	1916, 1917—2 years	853	1.4	745		879	1.4		Rhode Island.
South Carolina	1,660,934	1917—1 year	267	.2			1,616	1.0		South Carolina.
South Dakota	735,434	1917—1 year	146	.2	261		261	.4		South Dakota.

Texas	4,601,279						4,134	.9		Texas.
Utah	453,648	1917—1 year	60	.1	47		180	.4		Utah.
Vermont	366,192	1916, 1917—2 years	291	.8	192		312	.9		Vermont.
Washington	1,660,578	1916, 1917—2 years	1,127	.7			1,087	.7		Washington.
West Virginia	1,439,165	1917—1 year	368	.3	195	.1				West Virginia.
Wisconsin	2,553,983				1,852		2,065	.8		Wisconsin.

Tuberculosis (all forms)—Monthly averages of cases reported during the years for which data are available, 1916–17.

State.	Years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Average per year.	State.
Arkansas	1917—1 year	32	66	43	29	64	54	94	47	43	24	15	86	597	Arkansas.
California	1916, 1917—2 years	642	564	715	565	644	465	424	635	591	624	567	562	6,998	California.
Connecticut	1917—1 year	137	156	130	158	173	149	152	153	140	152	161	134	1,795	Connecticut.
District of Columbia	1916, 1917—2 years	83	80	95	94	92	84	95	94	78	84	84	69	1,032	District of Columbia.
Hawaii	1916, 1917—2 years	93	101	86	68	76	77	74	68	62	75	80	94	954	Hawaii.
Illinois	1917—1 year	113	1,250	1,211	1,003	866	1,160	1,313	1,258	1,245	448	1,559	2,573	13,999	Illinois.
Indiana	1917—1 year	330	362	408	377	380	338	264	304	273	251	367	221	3,875	Indiana.
Kansas	1916, 1917—2 years	128	126	147	112	145	127	119	131	107	95	108	100	1,445	Kansas.
Louisiana	1917—1 year	23	215	213	183	164	174	201	127	122	139	130	188	1,879	Louisiana.
Maine	1917—1 year	52	22	24	36	79	68	43	34	43	37	32	33	503	Maine.
Massachusetts	1916, 1917—2 years	744	726	762	748	775	773	842	723	683	659	690	714	8,839	Massachusetts.
Michigan	1916, 1917—2 years	402	537	537	583	596	536	393	564	387	419	352	660	5,966	Michigan.
Minnesota	1916, 1917—2 years	410	393	442	454	485	453	381	408	395	398	320	368	4,907	Minnesota.
Mississippi	1917—1 year	513	588	620	594	724	538	647	652	592	514	438	432	6,852	Mississippi.
New Jersey	1916, 1917—2 years	809	696	921	845	825	752	718	667	542	661	620	541	8,597	New Jersey.
New York	1916, 1917—2 years	2,697	2,507	3,018	2,523	2,570	2,702	2,415	2,608	2,121	2,237	2,199	2,016	29,613	New York.
North Dakota	1917—1 year	6	14	10	14	21	22	26	19	16	18	12	21	199	North Dakota.
Ohio	1916, 1917—2 years	527	580	689	628	582	568	536	442	424	434	421	394	6,225	Ohio.
Oklahoma	1917—1 year	54	54	72	42	40	46	34	32	33	22	52	20	501	Oklahoma.
Oregon	1916, 1917—2 years	43	37	71	56	46	49	51	48	36	41	43	44	565	Oregon.
Pennsylvania	1916, 1917—2 years	1,086	855	1,117	1,136	1,068	1,034	1,009	1,009	795	801	778	769	11,457	Pennsylvania.
Porto Rico	1917—1 year	59	63	66	73	71	82	68	66	99	116	85	103	951	Porto Rico.
Rhode Island	1916, 1917—2 years	68	65	93	94	90	94	80	67	73	61	56	62	903	Rhode Island.
South Carolina	1916—1 year	17	18	28	10	18	22	39	0	49	14	21	15	251	South Carolina.
South Dakota	1917—1 year	13	9	12	36	7	14	20	14	7	13	8	4	157	South Dakota.
Texas	1917—1 year	147	88	106	84	69	78	55	103	19	147	149	194	1,239	Texas.
Virginia	1916, 1917—2 years	321	298	362	317	315	285	220	288	293	212	232	227	3,370	Virginia.
West Virginia	1917—1 year	35	24	41	28	35	35	10	33	25	28	36	44	374	West Virginia.
Wisconsin	1916, 1917—2 years	140	117	189	122	196	177	186	213	107	115	122	116	1,800	Wisconsin.
Wyoming	1916—1 year	6	4	2	4	8	2	6	7	3	2	6	6	56	Wyoming.

Cases of tuberculosis (all forms) reported, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	238	283	261	297	284	265	235	230	200	199	173	205	2,870	Alabama.
Arkansas	42	74	123	130	127	61	59	54	43	56	32	63	864	Arkansas.
California	658	628	585	567	810	623	713	703	582	766	455	444	7,534	California.
Colorado	85	.....	110	76	4	93	47	59	50	40	30	35	629	Colorado.
Connecticut	138	148	178	205	225	236	240	208	174	114	155	146	2,167	Connecticut.
Florida	37	63	42	39	43	40	35	43	78	24	40	38	522	Florida.
Illinois	1,840	1,142	1,722	1,446	1,602	1,353	1,563	1,182	973	891	1,208	637	15,559	Illinois.
Louisiana	150	160	207	197	184	196	165	182	130	143	124	154	1,992	Louisiana.
Maine	22	30	9	30	21	34	41	19	23	23	25	19	296	Maine.
Massachusetts	706	753	898	865	966	818	696	664	619	465	570	569	8,589	Massachusetts.
Michigan	130	442	327	330	230	148	667	360	256	302	259	204	3,655	Michigan.
Minnesota	386	282	288	353	428	299	346	332	309	138	268	271	3,700	Minnesota.
Mississippi	435	540	678	637	614	610	608	468	369	344	310	247	5,860	Mississippi.
Montana	19	16	23	37	18	70	24	37	64	10	1	190	509	Montana.
New Jersey	518	602	819	826	731	624	724	656	594	509	756	587	7,946	New Jersey.
North Carolina	256	351	350	227	307	589	268	282	441	181	138	131	3,521	North Carolina.
Ohio	599	643	647	628	656	655	565	579	456	329	274	372	6,403	Ohio.
Oregon	38	57	79	70	78	91	78	102	81	46	31	42	793	Oregon.
Pennsylvania	852	988	1,077	1,244	1,005	1,186	859	903	760	361	251	629	10,115	Pennsylvania.
Porto Rico	70	85	118	138	174	150	217	165	196	119	114	140	1,686	Porto Rico.
Rhode Island	66	74	63	106	63	77	86	72	68	19	58	40	792	Rhode Island.
South Carolina	11	35	23	32	40	28	24	36	20	10	10	17	286	South Carolina.
South Dakota	17	16	17	35	27	15	23	28	28	20	37	44	307	South Dakota.
Texas	127	148	198	215	134	162	106	113	214	76	49	48	1,590	Texas.
Virginia	221	267	336	337	252	214	212	207	158	174	131	129	2,638	Virginia.
Washington	62	95	106	137	160	103	102	120	102	48	58	79	1,172	Washington.
Wyoming	.....	1	.....	.....	.....	.....	2	1	.....	.....	.....	.....	4	Wyoming.

Deaths registered as due to tuberculosis (all forms), 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	217	248	261	265	252	231	211	206	164	203	172	182	2,612	Alabama.
Arizona	103	90	122	125	97	59	50	69	62	116	76	146	1,115	Arizona.
Arkansas	98	95	117	114	122	117	97	66	66	112	94	191	1,289	Arkansas.
California	435	472	568	572	508	441	424	426	419	533	500	563	5,861	California.
Connecticut	201	158	188	199	192	145	131	126	139	217	156	184	2,036	Connecticut.
Delaware	47	42	45	34	42	34	22	38	37	46	20	33	440	Delaware.
District of Columbia	70	54	83	66	66	55	62	70	47	69	47	50	739	District of Columbia.
Florida	119	82	94	79	98	85	87	73	76	97	100	91	1,081	Florida.
Hawaii	51	30	35	35	36	41	53	45	35	36	34	42	473	Hawaii.
Illinois	686	656	890	939	798	682	597	567	566	740	703	696	8,520	Illinois.
Indiana	323	350	420	461	361	336	285	276	247	280	289	316	3,944	Indiana.
Iowa	150	132	132	157	139	140	121	99	112	108	138	135	1,563	Iowa.
Kansas	99	78	108	99	88	74	73	71	65	92	83	108	1,038	Kansas.
Kentucky	401	425	513	479	418	409	297	333	280	397	341	298	4,591	Kentucky.
Louisiana	295	257	302	342	299	285	266	227	218	308	241	238	3,278	Louisiana.
Maine	72	91	87	92	86	81	68	53	64	97	57	73	921	Maine.
Massachusetts	460	470	510	605	490	461	427	393	451	528	462	501	5,758	Massachusetts.
Michigan	278	313	351	380	330	279	260	252	210	289	235	286	3,463	Michigan.
Minnesota	199	188	219	260	254	183	167	151	166	173	229	219	2,408	Minnesota.
Nebraska	50	61	72	52	37	67	38	38	35	49	43	52	594	Nebraska.
New Jersey	392	398	522	475	426	347	347	342	316	485	338	351	4,739	New Jersey.
New York	1,552	1,448	1,858	1,631	1,468	1,335	1,188	1,156	1,058	1,668	1,332	1,259	16,953	New York.
North Dakota	19	26	26	32	30	31	21	22	16	20	21	35	299	North Dakota.
Ohio	665	632	837	809	728	607	549	511	477	610	598	626	7,649	Ohio.
Oklahoma	52	50	95	99	130	80	93	90	64	92	81	75	1,001	Oklahoma.
Oregon	53	54	79	64	55	61	58	38	25	56	56	39	638	Oregon.
Pennsylvania	999	1,061	1,287	1,316	1,089	947	893	905	850	1,409	1,052	1,067	12,875	Pennsylvania.
Porto Rico	214	221	222	210	211	115	267	269	213	210	262	279	2,693	Porto Rico.
Rhode Island	95	87	106	112	86	77	73	87	80	117	88	85	1,093	Rhode Island.
South Carolina	112	144	176	172	191	151	121	131	129	150	131	149	1,757	South Carolina.
South Dakota	17	16	17	35	27	15	23	28	28	20	37	44	307	South Dakota.
Texas	439	417	464	502	473	412	380	108	278	315	345	323	4,456	Texas.
Utah	15	15	24	24	10	15	16	17	12	23	19	17	207	Utah.
Vermont	33	24	31	41	43	36	25	22	31	34	26	25	371	Vermont.
Washington	106	122	140	114	152	107	117	90	84	108	110	114	1,364	Washington.
Wisconsin	150	182	224	268	238	180	202	186	168	173	147	219	2,337	Wisconsin.
Wyoming	6	4	4	9	4	6	3	5	6	7	6	1	61	Wyoming.

Tuberculosis (all forms)—Average number of cases reported per annum and average indicated morbidity rates, 1916–17; cases reported, deaths registered, indicated morbidity and mortality rates, and number of cases reported for each death registered, 1918.

State.	Estimated population, July 1, 1918.	Average.			1918					State.
		Years.	Cases reported per annum.	Cases per 1,000 inhabitants.	Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Number of cases reported for each death registered.	
Alabama	2,395,270				2,870	1.2	2,612	1.1	1.1	Alabama.
Arizona	272,034						1,115	4.1		Arizona.
Arkansas	1,792,965	1917—1 year	597	0.3	864		1,289	.7		Arkansas.
California	3,119,412	1916, 1917—2 years	6,998	2.3	7,534	2.4	5,861	1.9	1.3	California.
Colorado	1,014,581				629	.6				Colorado.
Connecticut	1,286,268	1917—1 year	1,795	1.4	2,167	1.7	2,036	1.6	1.1	Connecticut.
Delaware	216,941						440	2.0		Delaware.
District of Columbia	401,681	1916, 1917—2 years	1,032	2.8			739	1.8		District of Columbia.
Florida	938,877				522		1,081	1.2		Florida.
Hawaii	223,419	1916, 1917—2 years	954	3.6			473	2.1		Hawaii.
Illinois	6,317,734	1917—1 year	13,999	2.2	15,559	2.5	8,520	1.3	1.8	Illinois.
Indiana	2,854,167	do	3,875	1.4			3,944	1.4		Indiana.
Iowa	2,224,771						1,563	.7		Iowa.
Kansas	1,874,195	1916, 1917—2 years	1,445	.8			1,038	.6		Kansas.
Kentucky	2,408,547						4,591	1.9		Kentucky.
Louisiana	1,884,778	1917—1 year	1,879	1.0	1,992		3,278	1.7		Louisiana.
Maine	782,191	do	503	.6	296		921	1.2		Maine.
Massachusetts	3,832,790	1916, 1917—2 years	8,839	2.4	8,589	2.2	5,758	1.5	1.5	Massachusetts.
Michigan	3,133,678	do	5,966	1.9	3,655	1.2	3,463	1.1	1.1	Michigan.
Minnesota	2,345,287	do	4,907	2.1	3,700	1.6	2,408	1.0	1.5	Minnesota.
Mississippi	2,001,466	1917—1 year	6,852	3.5	5,860	2.9	2,798	1.4	2.1	Mississippi.
Missouri	3,448,498						4,587	1.3		Missouri.
Montana	486,376				509	1.0				Montana.
Nebraska	1,296,877						594	.5		Nebraska.
New Jersey	3,080,371	1916, 1917—2 years	8,597	2.9	7,946	2.6	4,739	1.5	1.7	New Jersey.
New York	10,646,989	do	29,613	2.9			16,953	1.6		New York.
North Carolina	2,468,025				3,521	1.4				North Carolina.
North Dakota	791,437	1917—1 year	199	.3			299	.4		North Dakota.
Ohio	5,273,814	1916, 1917—2 years	6,225	1.2	6,403		7,649	1.5		Ohio.
Oklahoma	2,377,629	1917—1 year	501	.2			1,001	.4		Oklahoma.
Oregon	888,243	1916, 1917—2 years	565	.7	793	.9	638	.7	1.2	Oregon.
Pennsylvania	8,798,067	do	11,457	1.3	10,115		12,875	1.5		Pennsylvania.
Porto Rico	1,247,677	1917—1 year	951	.8	1,686		2,693	2.2		Porto Rico.
Rhode Island	637,415	1916, 1917—2 years	903	1.5	792		1,093	1.7		Rhode Island.

South Carolina	1,660,934	1916—1 year	251	.2	286		1,757	1.1	South Carolina.
South Dakota	735,434	1917—1 year	157	.2	307		307	.4	South Dakota.
Texas	4,601,279	do	1,239	.3	1,590		4,456	1.0	Texas.
Utah	453,648						207	.5	Utah.
Vermont	366,192						371	1.0	Vermont.
Virginia	2,234,030	1916, 1917—2 years	3,370	1.5	2,638	1.2			Virginia.
Washington	1,660,578				1,172		1,364	.8	Washington.
West Virginia	1,439,165	1917—1 year	374	.3					West Virginia.
Wisconsin	2,553,983	1916, 1917—2 years	1,800	.7			2,337	.9	Wisconsin.
Wyoming	190,380	1916—1 year	56	.3	4		61	.3	Wyoming.

Typhoid fever—Monthly averages of cases reported during the years for which data are available, 1913–1917.

State.	Years.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Average per year.	State.
Alabama	1913, 1915–1917—4 years	81	67	50	65	117	310	575	532	339	265	152	89	2,642	Alabama.
Arizona	1916—1 year	0	0	3	2	0	9	6	7	5	14	5	0	51	Arizona.
Arkansas	1917—1 year	22	40	23	25	56	49	133	128	122	87	48	41	774	Arkansas.
California	1913–1917—5 years	100	70	76	89	95	105	165	185	150	169	101	104	1,409	California.
Colorado	1914, 1916, 1917—3 years	24	8	10	20	16	23	54	80	105	114	57	23	534	Colorado..
Connecticut	1913–1917—5 years	22	22	22	27	29	41	56	144	166	95	84	35	743	Connecticut.
District of Columbia	do	15	12	12	13	14	24	37	72	68	47	32	15	361	District of Columbia.
Hawaii	do	11	17	17	16	15	16	13	11	16	33	28	20	213	Hawaii.
Idaho	1913—1 year	0	0	1	0	0	10	12	26	56	23	30	18	176	Idaho.
Illinois	1913, 1914, 1917—3 years	239	171	140	184	136	145	324	512	686	508	427	269	3,741	Illinois.
Indiana	1913–1917—5 years	113	99	107	101	82	97	219	532	472	345	221	135	2,523	Indiana.
Kansas	do	37	34	41	38	39	51	212	351	335	322	214	125	1,799	Kansas.
Louisiana	1914–1917—4 years	46	32	21	41	69	125	160	124	84	107	80	120	1,009	Louisiana.
Maine	1916, 1917—2 years	19	11	6	10	11	7	19	32	47	27	22	31	242	Maine.
Maryland	1915–1917—3 years	107	71	75	79	97	122	242	545	603	407	232	156	2,736	Maryland.
Massachusetts	1913, 1916, 1917—3 years	102	73	69	92	79	92	138	296	364	263	153	98	1,819	Massachusetts.
Michigan	1913–1917—5 years	131	124	113	114	91	119	152	274	322	258	154	104	1,956	Michigan.
Minnesota	do	73	58	63	54	45	58	84	165	188	177	106	79	1,150	Minnesota.
Mississippi	1914–1917—4 years	257	193	164	157	299	616	955	1,042	816	642	480	305	5,926	Mississippi.
Montana	1913, 1914, 1916, 1917—4 years	51	34	26	36	29	23	35	52	69	76	42	19	492	Montana.
Nevada	1913, 1915, 1917—3 years	7	2	4	4	5	9	11	21	26	22	11	8	130	Nevada.
New Jersey	1913–1917—5 years	67	47	56	57	75	72	130	237	298	221	124	71	1,455	New Jersey.
New York	do	262	244	230	284	277	272	393	691	971	771	436	344	5,175	New York.
North Dakota	1917—1 year	8	5	7	26	24	24	7	20	34	39	23	14	231	North Dakota.
Ohio	1914–1917—4 years	243	199	176	190	228	245	338	591	815	601	337	211	4,174	Ohio.
Oklahoma	1913, 1915, 1917—3 years	75	55	29	64	48	133	293	312	264	232	154	98	1,757	Oklahoma.
Oregon	1913–1917—5 years	13	15	19	10	11	12	19	36	35	49	25	13	257	Oregon.
Pennsylvania	1916, 1917—2 years	378	317	317	297	292	382	506	929	1,536	1,278	427	221	6,880	Pennsylvania.
Porto Rico	1914, 1915, 1917—3 years	30	16	38	34	32	25	30	29	39	26	18	28	345	Porto Rico.
Rhode Island	1914, 1916, 1917—3 years	7	8	11	11	15	15	19	38	37	44	22	17	244	Rhode Island.
South Carolina	1913–1917—5 years	24	14	23	26	62	194	203	149	147	73	42	19	976	South Carolina.
South Dakota	1913, 1914, 1917—3 years	4	9	4	5	4	3	8	13	23	29	17	10	129	South Dakota.
Texas	1915, 1917—2 years	37	32	24	41	38	90	158	139	145	185	165	93	1,147	Texas.
Utah	1913–1915, 1917—4 years	13	11	30	22	21	39	66	82	131	104	76	26	621	Utah.
Vermont	1914–1917—4 years	14	14	16	20	9	8	10	28	39	39	18	12	227	Vermont.
Virginia	1913–1917—5 years	145	133	95	110	150	345	697	1,024	728	486	321	157	4,391	Virginia.
Washington	do	43	30	34	30	35	42	64	120	137	117	76	48	776	Washington.
West Virginia	1917—1 year	71	74	17	63	81	106	160	329	298	165	120	45	1,529	West Virginia.
Wisconsin	1913–1917—5 years	42	55	82	58	38	38	37	48	54	74	52	45	623	Wisconsin.
Wyoming	do	5	4	4	2	5	3	4	8	11	9	6	6	67	Wyoming.

Cases of typhoid fever reported, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	44	54	38	53	100	262	577	452	333	95	50	36	2,094	Alabama.
Arizona	7	1	2	1	5	9	24	5	10	1	0	6	71	Arizona
Arkansas	10	37	20	15	17	42	93	84	76	25	27	27	473	Arkansas.
California	81	53	60	66	113	106	170	122	109	105	25	39	1,049	California.
Colorado	5	3	11	23	8	11	52	110	129	41	7	4	404	Colorado.
Connecticut	18	9	11	16	15	24	38	104	147	30	12	19	443	Connecticut.
District of Columbia	10	6	5	6	7	21	46	39	43	19	5	10	217	District of Columbia.
Florida	17	14	27	23	73	38	99	69	56	31	24	14	485	Florida.
Illinois	89	82	55	52	51	64	212	241	286	102	24	86	1,344	Illinois.
Indiana	48	42	87	45	64	74	84	187	207	180	62	47	1,127	Indiana.
Kansas	35	30	56	58	66	92	322	392	444	201	88	27	1,811	Kansas.
Louisiana	26	42	66	86	189	321	382	342	196	108	63	101	1,922	Louisiana.
Maine	10	5	6	4	7	13	10	17	17	12	4	7	112	Maine.
Maryland	39	30	75	70	63	75	154	351	435	222	86	101	1,701	Maryland
Massachusetts	53	39	41	52	69	64	112	184	261	97	49	44	1,065	Massachusetts.
Michigan	44	47	71	47	35	69	66	115	226	128	33	34	915	Michigan.
Minnesota	44	59	82	61	34	22	42	83	77	78	18	14	614	Minnesota.
Mississippi	146	141	155	154	242	601	1,114	1,174	709	305	255	145	5,141	Mississippi.
Montana	2	12	11	23	3	7	28	31	37	35	11	10	210	Montana.
Nebraska	4	3	3	6	9	.....	.....	16	69	30	11	5	156	Nebraska.
New Jersey	52	34	46	36	36	38	65	132	166	64	25	45	739	New Jersey.
New York	122	123	168	197	186	250	312	543	586	461	202	180	3,330	New York.
North Carolina	20	17	30	31	46	260	879	949	769	203	75	109	3,388	North Carolina.
North Dakota	15	5	8	4	6	2	11	21	23	25	4	.....	124	North Dakota.
Ohio	142	130	138	126	122	192	253	443	841	324	116	91	2,918	Ohio.
Oregon	14	4	13	10	7	12	15	26	24	35	16	7	183	Oregon.
Pennsylvania	146	301	328	288	229	291	336	643	976	660	185	176	4,559	Pennsylvania.
Porto Rico	13	25	14	39	49	24	37	28	16	14	8	8	275	Porto Rico.
Rhode Island	4	8	2	23	8	6	14	16	36	4	8	3	132	Rhode Island.
South Carolina	5	8	10	11	29	75	158	289	97	52	23	6	763	South Carolina.
South Dakota	.....	1	9	3	5	2	3	16	23	13	3	14	92	South Dakota.
Texas	51	45	29	34	114	302	355	265	264	106	38	18	1,621	Texas.
Utah	10	8	11	10	21	19	27	37	37	34	9	8	231	Utah.
Vermont	14	8	2	1	14	6	5	31	32	21	6	3	143	Vermont.
Virginia	56	57	65	114	123	186	315	517	355	201	96	56	2,141	Virginia.
Washington	38	35	20	25	41	47	90	107	165	96	23	7	694	Washington.
West Virginia	48	46	42	96	70	104	177	204	192	69	61	18	1,127	West Virginia.
Wisconsin	32	31	56	42	36	35	29	39	43	19	4	2	368	Wisconsin.
Wyoming	.....	1	2	2	3	23	22	9	3	.....	.....	1	66	Wyoming.

Deaths registered as due to typhoid fever, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Alabama	26	8	20	19	33	58	118	114	89	57	33	23	598	Alabama.
Arizona	4	3	1	5	3	10	9	4	2	8	5	2	56	Arizona.
Arkansas	11	16	5	7	15	19	19	26	27	36	13	49	243	Arkansas.
California	9	18	13	15	16	17	19	24	17	28	8	10	194	California.
Connecticut	5	3	4	4	2	4	4	9	17	17	2	4	75	Connecticut.
Delaware	0	0	3	3	1	1	1	12	13	18	2	5	59	Delaware.
District of Columbia	4	2	1	1	.....	8	12	5	7	3	.....	5	48	District of Columbia.
Florida	9	5	12	26	33	38	37	26	27	19	13	5	250	Florida.
Hawaii	3	6	6	2	6	1	8	4	1	3	0	5	45	Hawaii.
Illinois	26	37	24	21	33	27	37	84	75	86	44	39	533	Illinois.
Indiana	19	16	24	26	20	23	23	46	48	77	45	29	396	Indiana.
Iowa	9	9	12	9	7	13	16	18	17	31	4	9	154	Iowa.
Kansas	20	11	11	8	12	13	32	46	37	51	29	14	284	Kansas.
Kentucky	29	16	28	33	29	43	56	104	112	88	53	27	618	Kentucky.
Louisiana	21	26	28	31	59	104	110	118	70	72	34	18	691	Louisiana.
Maine	4	5	4	4	2	7	2	6	8	11	3	2	58	Maine.
Maryland	10	9	7	13	8	10	14	32	42	65	10	17	237	Maryland.
Massachusetts	9	8	5	8	9	13	11	17	26	36	9	7	158	Massachusetts.
Michigan	22	15	20	35	21	16	18	34	30	64	29	17	321	Michigan.
Minnesota	5	4	23	10	5	1	5	9	11	7	5	3	88	Minnesota.
Nebraska	3	3	4	4	4	5	8	5	9	9	1	3	58	Nebraska.
New Jersey	13	4	14	16	4	7	8	23	18	41	4	10	162	New Jersey.
New York	27	21	34	28	44	30	50	55	78	145	31	33	576	New York.
North Dakota	.....	2	.....	1	1	1	3	3	3	9	2	1	26	North Dakota.
Ohio	47	38	42	52	41	34	38	76	113	181	68	41	771	Ohio.
Oklahoma	14	15	11	14	11	24	82	91	67	61	48	30	468	Oklahoma.
Oregon	2	2	6	3	5	4	9	9	5	5	15	5	70	Oregon.
Pennsylvania	45	52	68	68	52	43	76	87	129	198	62	44	924	Pennsylvania.
Porto Rico	17	21	15	20	9	8	15	13	14	15	3	7	157	Porto Rico.
Rhode Island	1	3	3	3	1	2	1	4	6	7	.....	4	35	Rhode Island.
South Carolina	2	5	11	14	18	57	70	98	90	56	28	33	482	South Carolina.
South Dakota	.....	.....	4	3	1	2	3	2	5	8	6	3	37	South Dakota.
Texas	55	53	46	31	57	129	176	148	113	117	71	61	1,057	Texas.
Utah	3	1	2	2	3	4	2	6	3	9	2	2	39	Utah.
Vermont	2	.....	2	2	2	1	2	4	7	4	4	1	31	Vermont.
Washington	2	6	2	2	9	5	11	4	11	18	17	10	98	Washington.
Wisconsin	8	10	18	12	5	4	8	6	10	7	5	3	94	Wisconsin.
Wyoming	1	2	2	.....	2	.....	5	2	2	1	1	.....	18	Wyoming.

Typhoid fever—Average number of cases reported per annum and average indicated morbidity rates, 1913-1917; cases reported, deaths registered, and indicated morbidity, mortality, and fatality rates, 1918.

State.	Estimated population July 1, 1918.	Average.			1918.					State.
		Years.	Cases reported per annum.	Cases per 1,000 inhabitants.	Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
Alabama	2,395,270	1913,1915-1917—4 years	2,642	1.1	2,094	0.9	598	0.25	28.5	Alabama.
Arizona	272,034	1916—1 year	51	.2	71	.3	56	.21	78.9	Arizona.
Arkansas	1,792,965	1917—1 year	774	.4	473	.3	243	.14	51.4	Arkansas.
California	3,119,412	1913-1917—5 years	1,409	.5	1,049	.3	194	.06	18.5	California.
Colorado	1,014,581	1914,1916,1917—3 years	534	.6	404	.4				Colorado.
Connecticut	1,286,268	1913-1917—5 years	743	.6	443	.3	75	.06	16.9	Connecticut.
Delaware	216,941						59	.27		Delaware.
District of Columbia	401,681	1913-1917—5 years	361	1.0	217	.5	48	.12	22.1	District of Columbia.
Florida	938,877				485	.5	250	.27	51.5	Florida.
Hawaii	223,419	1913,1917—5 years	213	1.0			45	.20		Hawaii.
Idaho	461,766	1913—1 year	176	.5						Idaho.
Illinois	6,317,734	1913,1914,1917—3 years	3,741	.6	1,344	.2	533	.08	39.7	Illinois.
Indiana	2,854,167	1913-1917—5 years	2,523	.9	1,127	.4	396	.14	35.1	Indiana.
Iowa	2,224,771						154	.07		Iowa.
Kansas	1,874,195	1913-1917—5 years	1,799	1.0	1,811	1.0	284	.15	15.7	Kansas.
Kentucky	2,408,547						618	.26		Kentucky.
Louisiana	1,884,778	1914-1917—4 years	1,009	.6	1,922	1.0	691	.37	36.0	Louisiana.
Maine	782,191	1916,1917—2 years	242	.3	112	.1	58	.07	51.8	Maine.
Maryland	1,384,539	1915-1917—3 years	2,736	2.0	1,701	1.2	237	.17	13.9	Maryland.
Massachusetts	3,832,790	1913,1916,1917—3 years	1,819	.5	1,065	.3	158	.04	14.8	Massachusetts.
Michigan	3,133,678	1913-1917—5 years	1,956	.6	915	.3	321	.10	35.1	Michigan.
Minnesota	2,345,287	do	1,150	.5	614	.3	88	.04	14.3	Minnesota.
Mississippi	2,001,466	1914-1917—4 years	5,926	3.1	5,141	2.6	599	.30	11.7	Mississippi.
Missouri	3,448,498						530	.15		Missouri.
Montana	486,376	1913,1914,1916,1917—4 years	492	1.1	210	.4				Montana.
Nebraska	1,296,877				156	.1	58	.04	37.2	Nebraska.
Nevada	114,742	1913,1915,1917—3 years	130	1.3						Nevada.
New Jersey	3,080,371	1913-1917—5 years	1,455	.5	739	.2	162	.05	21.9	New Jersey.
New York	10,646,989	do	5,175	.5	3,330	.3	576	.05	17.3	New York.
North Carolina	2,468,025				3,388	1.4				North Carolina.
North Dakota	791,437	1917—1 year	231	.3	124	.2	26	.03	21.0	North Dakota.
Ohio	5,273,814	1914-1917—4 years	4,174	.8	2,918	.6	771	.15	26.4	Ohio.
Oklahoma	2,377,629	1913,1915,1917—3 years	1,757	.8			468	.20		Oklahoma.
Oregon	888,243	1913-1917—5 years	257	.3	183	.2	70	.08	38.3	Oregon.
Pennsylvania	8,798,067	1916,1917—2 years	6,880	.8	4,559	.5	924	.11	20.3	Pennsylvania.

Typhoid fever—Average number of cases reported per annum and average indicated morbidity rates, 1913–1917; cases reported, deaths registered, and indicated morbidity, mortality, and fatality rates, 1918—Continued.

State.	Estimated population July 1, 1918.	Average.			1918					State.
		Years.	Cases reported per annum.	Cases per 1,000 inhabitants.	Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
Porto Rico	1,247,677	1914, 1915, 1917—3 years	345	0.3	275	0.2	157	0.13	57.1	Porto Rico.
Rhode Island	637,415	1914, 1916, 1917—3 years	244	.4	132	.2	35	.06	26.5	Rhode Island.
South Carolina	1,660,934	1913–1917—5 years	976	.6	763	.5	482	.29	63.2	South Carolina.
South Dakota	735,434	1913, 1914, 1917—3 years	129	.2	92	.1	37	.05	40.2	South Dakota.
Texas	4,601,279	1915, 1917—2 years	1,147	.3	1,621	.4	1,057	.23	65.2	Texas.
Utah	453,648	1913–1915, 1917—4 years	621	1.5	231	.5	39	.09	16.9	Utah.
Vermont	366,192	1914–1917—4 years	227	.6	143	.4	31	.08	21.6	Vermont.
Virginia	2,234,030	1913–1917—5 years	4,391	2.0	2,141	1.0				Virginia.
Washington	1,660,578	do	776	.5	694	.4	98	.06	14.1	Washington.
West Virginia	1,439,165	1917—1 year	1,529	1.1	1,127	.8				West Virginia.
Wisconsin	2,553,983	1913–1917—5 years	623	.3	368	.1	94	.04	25.5	Wisconsin.
Wyoming	190,380	do	67	.4	66	.3	18	.09	27.2	Wyoming.

Cases of typhus fever reported, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Colorado						1							1	Colorado.
Connecticut						1							1	Connecticut.
Florida		1											1	Florida.
Maryland						1	3						4	Maryland.
Massachusetts		1			1								2	Massachusetts.
Pennsylvania						1							1	Pennsylvania.
Texas	1							2	6	2			11	Texas.

Deaths registered as due to typhus fever, 1918.

State.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	State.
Maryland							3						3	Maryland.
Massachusetts			1										1	Massachusetts.
New Jersey				1									1	New Jersey.
Texas									1				1	Texas.

Typhus fever—Cases reported, deaths registered, and indicated morbidity, mortality, and fatality rates, 1918.

State.	Estimated population July 1, 1918.	Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	State.	Estimated population July 1, 1918.	Total cases reported.	Cases per 1,000 inhabitants.	Total deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Connecticut	1,286,268	1	0.0008				Massachusetts	3,832,790	2	0.0005	1	0.0003	50.0
Colorado	1,014,581	1	.0009				New Jersey	3,080,371			1	.0003	
Florida	938,877	1	.0011				Pennsylvania	8,798,067	1	.0001			
Maryland	1,384,539	4	.0029	3	0.0022	75.0	Texas	4,601,279	11	.0023	1	.0002	9.1

DEATHS DURING WEEK ENDED AUG. 2, 1919, IN CITIES.

From the "Weekly Health Index," Aug. 5, 1919, issued by the Bureau of the Census, Department of Commerce.

Deaths from all causes in certain large cities of the United States during the week ended Aug. 2, 1919, infant mortality (per cent), annual death rates, and comparison with corresponding week of preceding years.

City.	Population July 1, 1918, estimated.	Week ended Aug. 2, 1919.		Average annual death rate per 1,000.[2]		Per cent of deaths under 1 year.		
		Total deaths.	Death rate.[1]			Week ended Aug. 2, 1919.	Previous year or years.[2]	
Albany, N. Y.	112,565	22	10.2	C	17.6	4.5	C	5.3
Atlanta, Ga.	201,732	54	14.0	C	12.7	5.6	C	14.3
Baltimore, Md.	[3] 669,981	211	16.4	A	18.9	26.1	A	28.0
Boston, Mass.	785,245	173	11.5	A	14.4	17.9	A	17.5
Buffalo, N. Y.	473,229	119	13.1	C	15.6	26.9	C	33.8
Cambridge, Mass.	111,432	20	9.4	A	10.9	5.0	A	26.3
Chicago, Ill.	2,596,681	553	11.1	A	13.7	23.0	A	26.7
Cincinnati, Ohio	418,022	111	13.8	C	10.9	16.2	C	17.2
Cleveland, Ohio	810,306	170	10.9	C	11.3	14.7	C	31.8
Columbus, Ohio	225,296	57	13.2	C	12.7	12.3	C	14.5
Dayton, Ohio	130,655	34	13.6	C	12.4	17.6	C	6.5
Denver, Colo.	.....	55	.....	.....	.....	16.4	.....	.....
Fall River, Mass.	128,392	33	13.4	C	19.9	39.4	C	51.0
Grand Rapids, Mich.	135,450	14	5.4	C	10.8	14.3	C	10.7
Indianapolis, Ind.	290,389	85	15.3	C	13.7	9.4	C	18.4
Jersey City, N. J.	318,770	73	11.9	C	9.8	12.3	C	30.0
Kansas City, Mo.	313,785	102	16.9	C	16.5	16.7	C	26.3
Los Angeles, Calif.	568,495	104	9.5	A	12.3	13.5	A	10.0
Louisville, Ky.	242,707	75	16.1	C	14.4	10.7	C	4.5
Lowell, Mass.	109,081	27	12.9	A	18.2	59.3	A	35.1
Memphis, Tenn.	154,759	58	19.5	C	17.9	25.9	C	11.3
Milwaukee, Wis.	453,481	95	10.9	A	12.1	31.6	A	16.5
Minneapolis, Minn.	383,442	72	9.8	C	8.7	11.1	C	6.3
Nashville, Tenn.	119,215	50	21.9	C	19.2	16.0	C	13.6
Newark, N. J.	428,684	99	12.0	C	13.0	31.3	C	23.4
New Haven, Conn.	154,865	33	11.1	C	12.5	21.2	C	16.2
New Orleans, La.	382,273	126	17.2	A	18.1	14.3	A	14.2
New York, N. Y.	5,215,879	1,198	12.0	C	11.2	22.6	C	21.2
Oakland, Calif.	214,206	44	10.7	A	10.1	2.3	A	9.8
Omaha, Nebr.	180,264	34	9.8	C	11.3	23.5	C	15.4
Philadelphia, Pa.	1,761,371	429	12.7		[4] 17.1	22.1		[4] 23.9
Pittsburgh, Pa.	593,303	128	11.2	C	14.9	23.4	C	27.8
Portland, Oreg.	.....	45	.....	.....	.....	11.1	C	11.8
Providence, R. I.	263,613	49	9.7	C	12.7	24.5	C	32.8
Richmond, Va.	160,719	42	13.6	C	13.3	26.2	C	12.2
Rochester, N. Y.	264,856	50	9.8	C	15.6	2.0	C	20.3
St. Louis, Mo.	779,951	158	10.6	C	13.6	12.7	C	13.2
St. Paul, Minn.	257,699	38	7.7	C	9.5	13.2	C	12.8
Spokane, Wash.	.....	24	.....	.....	.....	4.2	C	11.1
Syracuse, N. Y.	161,404	28	9.0	C	17.8	14.3	C	29.1
Toledo, Ohio	262,234	55	10.9	A	14.4	5.5	A	20.8
Washington, D. C.	401,681	130	16.9	A	18.0	19.2	A	17.1
Worcester, Mass.	173,650	50	15.0	C	13.2	20.0	C	15.9

[1] Annual rates per 1,000 estimated population.
[2] "A" indicates data for the corresponding week of the years 1913 to 1917, inclusive. "C" indicates data for the corresponding week of the year 1918.
[3] Population estimated as of July 1, 1919.
[4] Data are based on statistics of 1915, 1916, and 1917.

Summary of information received by telegraph from industrial insurance companies for week ended Aug. 2, 1919.

Policies in force	40,774,651
Number of death claims	6,846
Death claims per 1,000 policies in force, annual rate	8.8

PREVALENCE OF DISEASE.

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.

UNITED STATES.

CURRENT STATE SUMMARIES.

Telegraphic Reports for Week Ended Aug. 9, 1919.

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers.

ALABAMA.

	Cases.
Diphtheria	14
Malaria	32
Poliomyelitis	1
Scarlet fever	7
Smallpox	2
Tuberculosis	41
Typhoid fever	38

ARKANSAS.

Chicken pox	9
Diphtheria	1
Influenza	2
Lethargic encephalitis	1
Malaria	250
Pellagra	12
Poliomyelitis	1
Scarlet fever	2
Trachoma	2
Tuberculosis	8
Typhoid fever	16
Whooping cough	6

CALIFORNIA.

Influenza	7
Poliomyelitis:	
Redwood City	1
Claremont	1
Smallpox:	
Oakland	2
Monterey County	1
San Francisco	7
Santa Clara County	2
Los Angeles County	4
San Joaquin County	1
Stockton	1
Long Beach	1
Santa Rosa	1
Typhoid fever:	
Sacramento	2
Fresno County	1
Modoc County	1
Woodland	1
Los Angeles County	1
Perris	1
Riverside	1

CONNECTICUT.

	Cases.
Cerebrospinal meningitis:	
Torrington	1
Seymour	1
Poliomyelitis:	
Torrington	2

DELAWARE.

Chancroid	2
Chicken pox	1
Diphtheria:	
Wilmington	1
Gonorrhea	36
Influenza:	
Milton	1
Malaria:	
Dover	1
Measles	1
Mumps	3
Scarlet fever:	
Townsend	1
Syphilis	3
Tuberculosis:	
Wilmington	3
New Castle	1
Typhoid fever:	
Laurel	1
Harrington	1
McDonough	1
Hartly	1
Townsend	1
Wyoming	3

FLORIDA.

Cerebrospinal meningitis:	
Orange County	1
Walton County	2
Diphtheria	1
Influenza	5
Malaria	61
Scarlet fever	3
Typhoid fever	5

GEORGIA.

Actinomycosis	2
Acute infectious conjunctivitis	3
Cerebrospinal meningitis	1

GEORGIA—continued.

	Cases.
Chicken pox	4
Diphtheria	18
Dysentery (amebic)	3
Dysentery (bacillary)	6
Gonorrhea	258
Hookworm	29
Influenza	2
Malaria	128
Mumps	4
Pneumonia (acute lobar)	13
Scarlet fever	3
Septic sore throat	2
Smallpox	9
Syphilis	138
Tetanus	1
Tuberculosis (pulmonary)	14
Typhoid fever	67
Whooping cough	8

ILLINOIS.

Cerebrospinal meningitis:	
Springfield	1
Standard	1
Diphtheria:	
Chicago	62
Harvey	2
Lemont	2
Dekalb	2
Crescent City	3
Mooseheart	2
Livingston County—	
Owego Township	2
Peoria	2
Scattering	11
Gonorrhea	282
Lethargic encephalitis:	
La Salle	1
Poliomyelitis:	
Chicago	14
La Grange	1
Cumberland County—	
Spring Point Township	1
Kewanee	1
Galesburg	1
Knox County—	
Lynn Township	1
Wenona	3
Sigel	1
Bradford	1
Freeport	1
Monmouth	2
Scarlet fever:	
Chicago	16
Springfield	6
Marion	2
Scattering	4
Smallpox:	
Hillview	2
Momence	2
Scattering	4
Syphilis	190
Typhoid fever:	
Chicago	7
Edgewood	2
St. Elmo	2
Sesser	2

ILLINOIS—continued.

	Cases.
Typhoid fever—Continued.	
Elgin	4
Galesburg	2
Bluff Precinct	10
Jacksonville	2
Moline	2
Springfield	2
Joliet	3
Scattering	9

INDIANA.

Diphtheria:	
Richmond	66
Johnson County	1
Montgomery County	1
Tipton County	1
Ripley County	1
Randolph County	2
Harrison County	4
Hendricks County	2
Grant County	7
Decatur County	1
Blackford County	7
Lake County	1
Washington County	2
Kosciusko County	3
Sullivan County	2
Boone County	2
Gonorrhea	119
Measles:	
Prevalent in—	
Clay County.	
Owen County.	
Lake County.	
Delaware County.	
Noble County.	
Rabies in animals:	
Orange County	1
Scarlet fever:	
Prevalent in—	
Madison County.	
Clinton County.	
Elkhart County.	
Hendricks County.	
Jay County.	
Delaware County.	
Smallpox:	
Prevalent in—	
Wayne County.	
Blackford County.	
Ripley County.	
Elkhart County.	
Syphilis	102
Typhoid fever:	
Prevalent in—	
Jennings County.	
Harrison County.	
Owen County.	
Delaware County.	
Shelby County.	
Parke County.	
Sullivan County.	

IOWA.

Chancroid	2
Diphtheria:	
Emmetsburg	1
Cerro Gordo County	1

IOWA—continued.

	Cases.
Gonorrhea	32
Scarlet fever:	
Burlington	1
Des Moines	2
Dubuque	1
Butler County	1
Humboldt County	1
Smallpox:	
Bennett	1
Boone	2
Syphilis	8

KANSAS.

Cerebrospinal meningitis:	
Carlton	1
Diphtheria	12
Scarlet fever	9
Smallpox	18

LOUISIANA.

Chancroid	45
Diphtheria	9
Gonorrhea	212
Influenza	2
Pellagra	9
Smallpox	2
Syphilis	117
Typhoid fever	31

MAINE.

Chicken pox	1
Diphtheria:	
Portland	3
Friendship	1
Winslow	1
Gonorrhea	30
Measles	1
Scarlet fever:	
Portland	3
Westbrook	1
Farmington	1
Smallpox:	
Boothbay	5
Lewiston	5
Syphilis	20
Tuberculosis	17
Typhoid fever:	
Harrison	1
Portland	1
Calais	1
Rumford	1
Whooping cough:	
Portland	2
Stonington	1
South Berwick	3
Islesboro	3
Farmington	1

MASSACHUSETTS.

Cerebrospinal meningitis	6
Chicken pox	29
Diphtheria	76
German measles	3
Gonorrhea	214
Influenza	5
Malaria	1
Measles	42

MASSACHUSETTS—continued.

	Cases.
Mumps	17
Ophthalmia neonatorum	17
Pellagra	1
Pneumonia (lobar)	16
Scarlet fever	51
Septic sore throat	10
Syphilis	73
Tetanus	1
Typhoid fever	24
Tuberculosis	154
Whooping cough	112

MINNESOTA.

Cerebrospinal meningitis	4
Chancroid	5
Gonorrhea	107
Poliomyelitis	5
Smallpox:	
Grant County—Lawrence Township	5
Otter Tail County—	
Aastad Township	1
Buse Township	1
Traverse County—Croke Township	3
Wright County—Silver Creek Township	1
Syphilis	108

MONTANA.

Cerebrospinal meningitis:	
Absarokee	1
Diphtheria	10
Influenza	3
Scarlet fever	3
Typhoid fever	14

NEW JERSEY.

Influenza	2
Pneumonia	15

NEW YORK.

(Exclusive of New York City.)

Cerebrospinal meningitis:	
Buffalo	1
Tonawanda	1
Diphtheria	135
Gonorrhea (voluntary reports)	47
Influenza	3
Measles	90
Poliomyelitis:	
Rotterdam	1
Ithaca	1
Hague	1
Newark	1
Yonkers	1
Pneumonia	33
Scarlet fever	50
Syphilis (voluntary reports)	170
Typhoid fever:	
Tonawanda	11
Scattering	36
Whooping cough	175

NORTH CAROLINA.

Chancroid	19
Chicken pox	13
Cholera infantum	5
Diphtheria	31
Dysentery (amebic)	1

NORTH CAROLINA—continued.

	Cases.
Dysentery (bacillary)	1
Gonorrhea	121
Measles	26
Ophthalmia neonatorum	1
Paratyphoid fever	2
Pneumonia (broncho)	3
Pneumonia (lobar)	3
Scarlet fever	24
Septic sore throat	7
Smallpox	14
Syphilis	42
Trachoma	1
Typhoid fever	144
Whooping cough	85

OHIO.

Smallpox:	
Uhrichsville	7
Youngstown	9
Typhoid fever:	
Struthers	3
Warren	5
Cambridge	5

VERMONT.

No outbreak or unusual prevalence.

VIRGINIA.

Poliomyelitis:	
Richmond	1
Henrico County	1

WASHINGTON.

Chicken pox	23
Diphtheria	16
Gonorrhea	29
Measles	7
Mumps	14
Scarlet fever	34
Smallpox	37
Syphilis	2
Tuberculosis	14
Typhoid fever	12
Whooping cough	31

WEST VIRGINIA.

Diphtheria:	
Huntington	2
Moundsville	1
Weston	2

WEST VIRGINIA—continued.

	Cases.
Measles:	
Charleston	2
Fairmont	1
Keyser	1
Poliomyelitis:	
Parkersburg	1
Scarlet fever:	
Charleston	1
Clarksburg	3
Fairmont	1
Huntington	2
Smallpox:	
Morgantown	1
Wheeling	2
Typhoid fever:	
Beckley	1
Clarksburg	1
Huntington	14
Keyser	1
Martinsburg	3
Wellsburg	1
Weston	1

WISCONSIN.

Cerebrospinal meningitis:	
Milwaukee	1
State	1
Chicken pox:	
Milwaukee	2
State	4
Diphtheria:	
Milwaukee	18
State	19
Measles:	
Milwaukee	3
State	9
Poliomyelitis:	
Milwaukee	9
State	18
Scarlet fever:	
Milwaukee	9
State	16
Smallpox:	
Milwaukee	3
State	20
Tuberculosis	17
Typhoid fever	12
Whooping cough:	
Milwaukee	45
State	8

SUMMARY OF CASES REPORTED MONTHLY BY STATES.

Tables showing by counties the reported cases of cerebrospinal meningitis, malaria, pellagra, poliomyelitis, smallpox, and typhoid fever are published under the names of these diseases. (See names of these and other diseases in the table of contents.)

The following monthly State reports include only those which were received during the current week. These reports appear each week as received.

State.	Cerebrospinal meningitis.	Diphtheria.	Malaria.	Measles.	Pellagra.	Poliomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
June, 1919:									
Alabama	6	16	213	41	59	12	16	33	112
Indiana	3	94	.....	584	.....	1	160	277	42
Nebraska	1	27	.....	81	.....	.....	38	382	3
Virginia	5	93	430	458	47	20	62	138	297

ANTHRAX.

Wilmington, Del., and Woburn, Mass.

During the week ended July 26, 1919, one case of anthrax was reported at Wilmington, Del. On July 22, 1919, a case was reported at Woburn, Mass.

CEREBROSPINAL MENINGITIS.

State Reports for June, 1919.

Place.	New cases reported.
Alabama:	
Crenshaw County	1
Houston County	1
Lee County	1
Mobile County	1
Talladega County	1
Wilcox County	1
Total	6
Indiana:	
Clark County	1
Jay County	1
Lake County	1
Total	3
Nebraska:	
Lancaster County	1
Virginia:	
Buchanan County	1
James City County— Williamsburg	1
Mathews County	1
Middlesex County	1
Norfolk County	1
Total	5

City Reports for Week Ended July 26, 1919.

Place.	Cases.	Deaths.
Appleton, Wis.	1	
Benton Harbor, Mich.	1	
Boston, Mass.	1	
Bridgeport, Conn.		1
Chicago, Ill.		1
Cleveland, Ohio		1
Colorado Springs, Colo.	1	1
Louisville, Ky.	1	
Memphis, Tenn.		1
Milwaukee, Wis.	4	3
New York, N. Y.	1	1
Norfolk, Va.	1	
Pawtucket, R. I.	1	
Philadelphia, Pa.	1	
Pittsfield, Mass.	1	
Providence, R. I.	1	1
Rahway, N. J.	1	
Richmond, Va.	1	1
San Francisco, Calif.		1

DIPHTHERIA.

See Telegraphic weekly reports from States, p. 1901; Monthly summaries by States, p. 1904; and Weekly reports from cities, p. 1913.

LEPROSY.

San Francisco, Calif.

During the week ended July 26, 1919, one case of leprosy was reported at San Francisco, Calif.

MALARIA.

State Reports for June, 1919.

Place.	New cases reported.
Alabama:	
Autauga County	15
Bibb County	1
Colbert County	2
Geneva County	1
Greene County	6
Houston County	108
Jackson County	1
Jefferson County	8
Lamar County	25
Limestone County	1
Marengo County	1
Marshall County	1
Mobile County	2
Montgomery County	6
Morgan County	1
Shelby County	2
Sumter County	1
Talladega County	1
Tuscaloosa County	24
Walker County	6
Total	213
Virginia:	
Accomac County	1
Alleghany County—	
Clifton Forge	2
Amherst County—	
Woodson	2
Appomattox County	13
Botetourt County	17
Brunswick County	17
Lawrenceville	2
Buckingham County	3
Campbell County	13
Caroline County	7
Charles City County	3
Chesterfield County	2
Winterpock	1
Dickenson County—	
Clintwood	2
Elizabeth City County—	
Hampton	2
Essex County	5
Fluvanna County	2
Franklin County	3
Giles County	1
Greensville County—	
North Emporia	23
Virginia—Continued.	
Halifax County	17
South Boston	11
Hanover County	21
Henrico County—	
Richmond	5
Isle of Wight County	26
King and Queen County	10
Lancaster County	3
Loudoun County	6
Lunenburg County	9
Victoria	2
Mecklenburg County	32
Middlesex	9
Nansemond County	13
Whaleyville	3
Suffolk	6
Northampton County	3
Cape Charles	11
Northumberland County	11
Pittsylvania County	5
Powhatan County	9
Princess Anne County	11
Oceania	2
Virginia Beach	18
Prince Edward County—	
Farmville	1
Prince George County	3
Hopewell	5
Prince William County—	
Quantico	1
Roanoke County—	
Salem	2
Shenandoah County	1
Southampton County	9
Franklin	2
Sebrell	3
Stafford County—	
Falmouth	12
Surry County	3
Sussex County	4
Stony Creek	4
Warwick County—	
Camp Custis	1
Denhigh	5
Washington County	6
Wise County	3
York County	1
Total	430

City Reports for Week Ended July 26, 1919.

Place.	Cases.	Deaths.
Baton Rouge, La	2	
Belleville, N. J	1	
Birmingham, Ala	1	1
Charleston, S. C		1
Chicago, Ill		1
Dallas, Tex	10	1
East Orange, N. J	1	
Elgin, Ill	2	
Fort Worth, Tex		1
Little Rock, Ark	4	
Memphis, Tenn	3	1
Newark, N. J	3	
New Orleans, La	3	1
North Little Rock, Ark	1	
Paterson, N. J	1	
Portsmouth, Va		1
Richmond, Va	1	
Rome, Ga	6	
San Francisco, Calif	2	
Savannah, Ga	3	
Toledo, Ohio		1
Tuscaloosa, Ala	3	

MEASLES.

See Telegraphic weekly reports from States, p. 1901; Monthly summaries by States, p. 1904; and Weekly reports from cities, p. 1913.

PELLAGRA.

State Reports for June, 1919.

Place.	New cases reported.
Alabama:	
Colbert County	1
Conecuh County	1
Geneva County	2
Jefferson County	7
Mobile County	21
Monroe County	2
Montgomery County	8
Randolph County	1
Talladega County	3
Tuscaloosa County	11
Walker County	2
Total	59
Virginia:	
Alexandria County	1
Alleghany County—	
Clifton Forge	1
Augusta County	1
Buckingham County	1
Chesterfield County—	
Winterpock	1
Dinwiddie County	1
Elizabeth City County—	
Hampton	2
Essex County	2
Greensville County	6
North Emporia	2
Virginia—Continued.	
Hanover County	1
Henrico County—	
Glen Allen	1
Richmond	3
Henry County—	
Martinsville	1
Isle of Wight County	1
Loudoun County—	
Leesburg	1
Mathews County	1
Northampton County	4
Patrick County	1
Pittsylvania County—	
Danville	1
Powhatan County	1
Scott County	1
Southampton County	1
Sebrell	1
Spottsylvania County—	
Fredericksburg	1
Surry County	6
Sussex County	1
Wise County	2
Total	47

City Reports for Week Ended July 26, 1919.

Place.	Cases.	Deaths.
Austin, Tex		1
Birmingham, Ala		1
Charleston, S. C		1
Charlotte, N. C		1
Dallas, Tex	8	
Fort Worth, Tex		1
Lexington, Ky		1
Little Rock, Ark	1	
Los Angeles, Calif	1	
Macon, Ga		1
Memphis, Tenn		1
Montgomery, Ala	1	
Nashville, Tenn	1	1
New Orleans, La	1	
Tuscaloosa, Ala	2	

PLAGUE-INFECTED GROUND SQUIRRELS.

Alameda County, Calif.

On July 17, 1919, a plague-infected ground squirrel was reported found in Alameda County, Calif. Another one was reported found on July 18, 1919. Diagnoses were based on animal inoculation and cultures. Intensive hunting and poisoning operations are being carried on.

PNEUMONIA.

City Reports for Week Ended July 26, 1919.

Place.	Lobar.		All forms.	
	Cases.	Deaths.	Cases.	Deaths.
Anderson, Ind		1		
Arlington, Mass	1	1		
Atlanta, Ga		3		
Baltimore, Md	1	1		
Birmingham, Ala		2		
Boston, Mass	5	1		
Bridgeport, Conn		1		
Buffalo, N. Y		1		
Cairo, Ill		1		
Charlotte, N. C		1		
Chicago, Ill			55	27
Cincinnati, Ohio		1		
Cleveland, Ohio	5	5		
Columbus, Ga	2			
Dayton, Ohio	1	1		
Denver, Colo		1		3
Detroit, Mich	1	6	3	11
East Chicago, Ind				1
Elizabeth, N. J		1		
Elmira, N. Y				1
Everett, Mass			1	
Fort Worth, Tex		4		
Fresno, Calif		1		
Grand Rapids, Mich	1			
Holyoke, Mass	1	1		
Jersey City, N. J		2		
Johnstown, N. Y	1	1		
La Crosse, Wis	1	1		
Lawrence, Kans	1			
Lawrence, Mass	1			
Lexington, Ky		1		
Los Angeles, Calif	1			
Lowell, Mass	1			
Lynn, Mass	1	1		
Madison, Wis		2		
Malden, Mass	1			
Mankato, Minn				1
Martins Ferry, Ohio		1		
Memphis, Tenn		1		
Minneapolis, Minn		2		
Newark, N. J	3	4		
New Bedford, Mass	1	1		
New Orleans, La		1		
New York, N. Y			9	62
Oakland, Calif		2		
Oak Park, Ill		1		
Omaha, Nebr				2
Orange, N. J		1		
Oshkosh, Wis		1		
Paterson, N. J	18			
Pawtucket, R. I		1		
Philadelphia, Pa	17	4		
Portland, Oreg				1
Portsmouth, Va		1		
Providence, R. I		2		
Racine, Wis		1		
Richmond, Va		3		
Rochester, N. Y	1	1		
Rockford, Ill		1		
Rome, N. Y	3			
Salt Lake City, Utah		1		
San Francisco, Calif	5	7		
Santa Cruz, Calif	1			
Savannah, Ga		1		
Schenectady, N. Y	2			
Springfield, Ill		1		
Terre Haute, Ind		1		
Topeka, Kans	1			
Trenton, N. J	1			
Troy, N. Y		1		
Washington, D. C		2		
Wheeling, W. Va				1
Yonkers, N. Y	1	1		

POLIOMYELITIS (INFANTILE PARALYSIS).

State Reports for June, 1919.

Place.	New cases reported.
Alabama:	
Jefferson County	8
Pike County	1
Tuscaloosa County	1
Walker County	2
Total	12
Indiana:	
Switzerland County	1
Virginia:	
Culpeper County	2
Dickenson County	4
Clintwood	2
Virginia—Continued.	
Elizabeth City County—	
Hampton	2
Phoebus	5
Hanover County	2
Henrico County—	
Richmond	1
Lee County	1
Washington County	1
Total	20

POLIOMYELITIS (INFANTILE PARALYSIS)—Continued.

City Reports for Week Ended July 26, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Baltimore, Md	4	2	Marinette, Wis		1
Charleston, W. Va	2	2	Milwaukee, Wis	22	2
Chicago, Ill	8	1	Natick, Mass	1	
Cleveland, Ohio	1		Omaha, Nebr	5	
Flint, Mich	1		Pontiac, Mich	3	2
Fond du Lac, Wis	1		Richmond, Va	1	
Janesville, Wis	1		Topeka, Kans	1	
Kenosha, Wis	1				

RABIES IN ANIMALS.

City Reports for Week Ended July 26, 1919.

During the week ended July 26, 1919, three cases of rabies in animals were reported at Akron, Ohio, and one at Chillicothe, Ohio.

SCARLET FEVER.

See Telegraphic weekly reports from States, p. 1901; Monthly summaries by States, p. 1904; and Weekly reports from cities, p. 1913.

SMALLPOX.

State Reports for June, 1919.

Place.	Cases.	Deaths.
Alabama:		
Chilton County	1	
Clarke County	2	
Colbert County	1	1
DeKalb County	1	
Jefferson County	6	
Mobile County	18	1
Morgan County	2	
Talladega County	1	
Wilcox County	1	
Total	33	2
Indiana:		
Allen County	11	
Boone County	1	
Cass County	53	
Dearborn County	14	
Delaware County	5	
Elkhart County	4	
Fayette County	3	
Floyd County	1	
Fountain County	1	
Fulton County	2	
Grant County	6	
Hamilton County	7	
Hendricks County	1	
Henry County	9	
Howard County	8	
Huntington County	2	
Jennings County	3	
Johnson County	1	
Knox County	4	
Kosciusko County	1	
Lake County	3	
LaPorte County	14	
Lawrence County	6	
Madison County	50	
Marion County	9	
Ohio County	3	
Parke County	2	
Randolph County	2	
Ripley County	10	
Shelby County	4	
St. Joseph County	5	
Indiana—Continued.		
Sullivan County	1	
Switzerland County	3	
Tippecanoe County	10	
Tipton County	3	
Vermillion County	4	
Vigo County	1	
Wells County	5	
White County	5	
Total	277	
Nebraska:		
Adams County	2	
Antelope County	1	
Box Butte County	5	
Boyd County	1	
Buffalo County	24	
Burt County	1	
Cass County	3	
Cherry County	2	
Cheyenne County	1	
Clay County	13	
Custer County	54	
Dixon County	1	
Douglas County	81	
Franklin County	2	
Furnas County	1	
Gage County	15	
Jefferson County	4	
Keith County	1	
Lancaster County	117	
Otoe County	1	
Phelps County	4	
Richardson County	23	
Saline County	1	
Saunders County	19	
Sheridan County	1	
Stanton County	1	
Thomas County	1	
Wayne County	1	
York County	1	
Total	382	

SMALLPOX—Continued.

State Reports for June, 1919—Continued.

Place.	Cases.	Deaths.
Virginia:		
Accomac County	10	
Albemarle County—		
Charlottesville	2	
Alleghany County—		
Clifton Forge	2	
Covington	8	
Bath County	10	
Bedford County	1	
Buchanan County	1	
Campbell County	4	
Chesterfield County	7	
Franklin County	1	
Henrico County—		
Richmond	1	
Henry County	4	
Isle of Wight County	10	
Loudoun County	1	
Louisa County—		
Louisa	3	
Lunenburg County	3	
Mathews County	2	
Montgomery County	1	
Norfolk County	9	
Portsmouth	2	
Virginia—Continued.		
Nottoway County—		
Blackstone	2	
Pittsylvania County—		
Danville	1	
Princess Anne County	1	
Pulaski County	1	
Roanoke County	21	
Vinton	1	
Rockbridge County—		
Glasgow	1	
Scott County	8	
Sussex County	2	
Tazewell County—		
Pocahontas	2	
Warren County—		
Front Royal	5	
Warwick County—		
Denbigh	1	
Washington County	10	
Total	138	

City Reports for Week Ended July 26, 1919.

Place.	Cases.	Deaths.
Aberdeen, Wash	2	
Anniston, Ala	1	
Appleton, Wis	1	
Atlanta, Ga	6	
Battle Creek, Mich	1	
Beatrice, Nebr	1	
Bellingham, Wash	1	
Birmingham, Ala	1	
Boise, Idaho	1	
Buffalo, N. Y	3	
Chanute, Kans	1	
Cincinnati, Ohio	1	
Cleveland, Ohio	5	
Dallas, Tex	6	
Danville, Ill	1	
Davenport, Iowa	5	
Denver, Colo	3	
Detroit, Mich	4	
Duluth, Minn	2	
El Paso, Tex	4	
Eureka, Calif	2	
Fort Worth, Tex	3	
Grand Rapids, Mich	1	
Hoquiam, Wash	4	
Hutchinson, Kans	1	
Independence, Mo	3	
Indianapolis, Ind	2	
Knoxville, Tenn	3	
La Fayette, Ind	4	1
Lincoln, Nebr	2	
Logansport, Ind	6	
Los Angeles, Calif	1	
Madison, Wis	1	
Marquette, Mich	1	
Memphis, Tenn	1	
Milwaukee, Wis	3	
Minneapolis, Minn	6	
Morgantown, W. Va	3	
Oakland, Calif	2	
Omaha, Nebr	3	
Portland, Oreg	27	
Portsmouth, Ohio	1	
Roanoke, Va	4	
Rock Island, Ill	1	
Rome, Ga	1	
St. Paul, Minn	3	
Salt Lake City, Utah	1	
San Francisco, Calif	5	
San Jose, Calif	1	
Seattle, Wash	21	
Spokane, Wash	3	
Tacoma, Wash	1	
Tulsa, Okla	1	
Wichita, Kans	1	
Winston-Salem, N. C	1	
Yakima, Wash	4	
Youngstown, Ohio	10	

TETANUS.

City Reports for Week Ended July 26, 1919.

Place.	Cases.	Deaths.
Chicago, Ill	2	1
Detroit, Mich	2	1
Kansas City, Kans	1	
Los Angeles, Calif	1	
Macon, Ga		1
Memphis, Tenn		1
Milwaukee, Wis		1
Newark, N. J	1	
New Orleans, La		1
Rochester, N. Y	1	
Wilmington, N. C		1

TUBERCULOSIS.

See Telegraphic weekly reports from States, p. 1901, and weekly reports from cities, p. 1913.

TYPHOID FEVER.

State Reports for June, 1919.

Place.	New cases reported.
Alabama:	
Barbour County	1
Bullock County	2
Calhoun County	2
Chambers County	1
Chilton County	5
Coffee County	3
Colbert County	4
Crenshaw	3
Cullman County	1
Etowah County	1
Fayette County	1
Geneva County	3
Greene County	1
Henry County	3
Jackson County	1
Jefferson County	29
Lamar County	3
Lawrence County	2
Lee County	1
Limestone County	1
Marion County	1
Marshall County	1
Mobile County	12
Monroe County	2
Montgomery County	8
Morgan County	0
Pickens County	2
Pike County	6
Randolph County	5
Sumter County	1
Talladega County	2
Tallapoosa County	1
Tuscaloosa County	3
Total	112
Indiana:	
Adams County	1
Blackford County	1
Cass County	1
Clark County	5
Decatur County	1
Elkhart County	1
Gibson County	2
Howard County	3
Huntington County	2
Kosciusko County	1
Lake County	9
Marion County	4
Perry County	1
Scott County	1
St. Joseph County	5
Union County	1
Vanderburg County	1
Warrick County	1
White County	1
Total	42
Nebraska:	
Cedar County	1
Seward County	2
Total	3
Virginia:	
Accomac County	1
Albemarle County	2
Charlottesville	1
Alexandria County—	
Alexandria	1
Alleghany County—	
Clifton Forge	1
Covington	1
Virginia—Continued.	
Amelia County	5
Amherst County	1
Woodson	1
Appomattox County	5
Augusta County	7
Staunton	2
Bath County—	
Williamsville	1
Bedford County	4
Botetourt County	3
Brunswick County	2
Buchanan County	1
Buckingham County	1
Campbell County	3
Caroline County	6
Carroll County	2
Clarke County—	
White Post	1
Dickenson County—	
Clintwood	2
Dinwiddie County—	
Carson	3
Elizabeth City County—	
Hampton	1
Phoebus	1
Essex County	8
Floyd County	6
Franklin County	1
Frederick County	1
Winchester	3
Grayson County	5
Elk Creek	2
Greenesville County—	
North Emporia	1
Isle of Wight County—	
Carrsville	1
Dendron	1
James City County—	
Williamsburg	2
King and Queen County	4
Halifax	2
South Boston	1
Hanover County	4
Henrico County—	
Richmond	6
Henry County	4
Lancaster County—	
Irvington	1
Lee County	5
Loudoun County	1
Louisa County—	
Mineral	5
Lunenburg County	3
Madison County	2
Mecklenburg County	1
Middlesex County	1
Montgomery County	1
Elliston	1
Radford	6
Nansemond County	6
Nelson County	1
Elmington	1
Tyro	1
Norfolk County	10
Norfolk	1
Portsmouth	6
Northampton County	10
Cape Charles	11
Franktown	2
Northumberland County	1
Nottoway County—	
Blackstone	2
Orange County	3
Gordonsville	2

TYPHOID FEVER—Continued.

State Reports for June, 1919—Continued.

Place.	New cases reported.
Virginia—Continued.	
Patrick County	7
Pittsylvania County—	
Danville	2
Powhatan County	3
Princess Anne County	9
Prince Edward County—	
Prospect	1
Roanoke County—	
Roanoke	2
Salem	2
Rockbridge County—	
Buena Vista	2
Rockingham County	13
Harrisonburg	1
Dayton	1
Russell County—	
Belfast Mills	1
Dante	2
Scott County—	
Nickelsville	2
Shenandoah County	3
Smyth County	5
Virginia—Continued.	
Southampton County	17
Drewryville	2
Newsoms	1
Sebrell	3
Sedley	1
Tazewell County—	
Pocahontas	2
Warwick County—	
Lee Hall	1
Newport News	4
Washington County	2
Abingdon	1
Wise County	4
Coeburn	1
Exeter	1
Inman	1
Roaring Fork	1
Toms Creek	1
Wythe County	2
York County	1
Total	297

City Reports for Week Ended July 26, 1919.

Place.	Cases.	Deaths.
Akron, Ohio	3	
Alton, Ill	1	
Asbury Park, N. J	2	
Atlanta, Ga	2	
Baltimore, Md	18	
Baton Rouge, La	1	1
Battle Creek, Mich	1	
Bedford, Ind	1	
Birmingham, Ala	2	1
Bloomfield, N. J	2	
Buffalo, N. Y	1	1
Canton, Ohio	1	
Charleston, W. Va	1	
Charlotte, N. C	9	
Chicago, Ill	11	
Cincinnati, Ohio	1	
Cleveland, Ohio	1	
Coffeyville, Kans	3	1
Colorado Springs, Colo	1	
Columbus, Ga	3	
Covington, Ky	1	
Cumberland, Md	1	
Dallas, Tex	2	
Dayton, Ohio	3	
Denver, Colo	1	
Detroit, Mich	16	3
Durham, N. C	1	
East Chicago, Ind		2
East St. Louis, Ill	1	
Elgin, Ill	1	
Elmira, N. Y	2	
Flint, Mich	2	
Fort Worth, Tex	3	2
Grand Rapids, Mich	1	
Great Falls, Mont	1	
Hammond, Ind	1	
Haverhill, Mass	1	1
Houston, Tex	3	
Hutchinson, Kans	4	
Independence, Mo	3	
Indianapolis, Ind	2	1
Kansas City, Kans	1	
Knoxville, Tenn	2	1
Lawrence, Mass	1	
Leominster, Mass	1	1
Little Rock, Ark	1	
Los Angeles, Calif	7	
Louisville, Ky	10	3
Lynn, Mass	2	
Macon, Ga	6	
Martinsburg, W. Va	2	
Memphis, Tenn	6	3
Milwaukee, Wis	1	3
Mobile, Ala	1	
Montgomery, Ala	3	
Nashville, Tenn	8	
New Britain, Conn	1	
New Haven, Conn	1	
New Orleans, La	5	
New York, N. Y	10	1
Norfolk, Va	1	
North Little Rock, Ark	1	
North Tonawanda, N. Y	2	1
Oklahoma City, Okla	4	1
Parsons, Kans	1	
Pawtucket, R. I		1
Philadelphia, Pa	12	2
Pocatello, Idaho	1	
Pomona, Calif	8	1
Port Chester, N. Y	2	
Portland, Me	4	
Portland, Oreg	1	
Portsmouth, Va	2	2
Poughkeepsie, N. Y		1
Providence, R. I	5	2
Quincy, Mass	2	
Reno, Nev	2	
Richmond, Va	4	1
Roanoke, Va	2	
Rochester, N. Y	4	
Rome, Ga	1	
St. Joseph, Mo	3	
St. Louis, Mo	7	1
St. Paul, Minn	1	
Salt Lake City, Utah	1	
San Francisco, Calif	2	2
Savannah, Ga	3	
Schenectady, N. Y	1	
Spartanburg, S. C	1	
Spokane, Wash	2	
Springfield, Ohio	1	
Terre Haute, Ind	2	
Topeka, Kans		1
Trenton, N. J	1	
Tulsa, Okla	16	
Tuscaloosa, Ala	1	
Waco, Tex	6	
Washington, D. C	4	
Wichita, Kans	1	
Wilmington, N. C	1	
Winston-Salem, N. C	3	
Youngstown, Ohio	1	

TYPHUS FEVER.

Baltimore, Md.

During the week ended July 26, 1919, one case of typhus fever was reported at Baltimore, Md.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

City Reports for Week Ended July 26, 1919.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Aberdeen, Wash	21,392						4			
Abilene, Tex	14,954		1							
Adams, Mass	14,406	3								
Adrian, Mich	11,570	3								
Akron, Ohio	93,604	17			3		2		14	
Alameda, Calif	28,433	5	2		1				2	2
Albany, N. Y	106,632				1		2		2	
Alton, Ill	23,783		1							
Anderson, Ind	24,230	5								
Ansonia, Conn	16,954	3							1	1
Appleton, Wis	18,005						1			
Arlington, Mass	13,073	6	1							
Asbury Park, N. J	14,629	8					1			
Atchison, Kans	16,785		1						1	
Atlanta, Ga	196,144	39			2		1		2	2
Atlantic City, N. J	59,515	12	1		4		1		7	1
Attleboro, Mass	19,776	2							1	
Austin, Tex	35,612	16							1	1
Bakersfield, Calif	17,543	4								
Baltimore, Md	594,637	200	15	1	4		10		27	22
Baton Rouge, La	17,544	3			4		3			
Battle Creek, Mich	30,159		2				1			
Bayonne, N. J	72,204		3				1		2	
Beatrice, Nebr	10,437	3								
Beaumont, Tex	28,851	9								
Bedford, Ind	10,613	1					1			
Beloit, Wis	18,547	5							1	
Benton Harbor, Mich	11,099	3								
Berkeley, Calif	60,427	2	2				1			
Berlin, N. H	13,892	4								1
Beverly, Mass	22,128	2								
Biddeford, Me	17,760	7								
Binghamton, N. Y	54,864	7					3		3	
Birmingham, Ala	189,716	51	2	1			5		8	7
Bloomfield, N. J	19,013		1		1				1	
Boise, Idaho	35,951	9					2			
Boston, Mass	767,813	155	42		15	1	9		35	15
Brazil, Ind	10,472	5								
Bridgeport, Conn	124,724	28	2		2	1	1		6	6
Bristol, Conn	16,318	1								
Brockton, Mass	69,152	5	1	1	6				3	
Brookline, Mass	33,526	9							2	1
Brunswick, Ga	10,984	5							1	
Buffalo, N. Y	475,781	122	41	2	10		9		28	8
Burlington, Iowa	25,144	2					2			
Burlington, Vt	21,802	5	1							1
Butte, Mont	44,057		1				2			
Cadillac, Mich	10,158	4	4	1						
Cairo, Ill	15,995	7								
Cambridge, Mass	114,293	23	2		5		3		1	
Camden, N. J	108,117		1						3	
Canton, Ohio	62,566	12	3						1	2
Chanute, Kans	12,968	1								
Charleston, S. C	61,041	20								3
Charleston, W. Va	31,060	10	2							
Charlotte, N. C	40,759	15			2				3	1
Chelsea, Mass	48,405	9	1	1					1	1
Cheyenne, Wyo	[1] 11,320	1							1	1
Chicago, Ill	2,547,201	501	75	8	114	4	21	1	253	61
Chicopee, Mass	29,950	5	2							3
Chillicothe, Ohio	15,625	4								
Cincinnati, Ohio	414,248	91	2		19		8		28	7

[1] Population Apr. 15, 1910.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Contd.

City Reports for Week Ended July 26, 1919—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Cleveland, Ohio	692,259	146	21	1	27		4		19	19
Clinton, Iowa	27,678		1							
Clinton, Mass	[1]13,075	1								1
Coffeyville, Kans	18,331								1	1
Cohoes, N. Y	25,292	6								1
Colorado Springs, Colo	38,965	15			1				18	6
Columbia, S. C	35,165		1						2	
Columbus, Ga	26,306	11	3	1	3				1	2
Columbus, Ohio	229,135	60	3		2		2		4	5
Concord, N. H	22,858	8							1	1
Covington, Ky	59,623	11	1							1
Cranston, R. I	26,773	3								
Cumberland, Md	26,686	6	1				2		2	1
Dallas, Tex	129,738	31							2	1
Danbury, Conn	22,931	11	1							
Danvers, Mass	10,037	0	1						1	
Danville, Ill	32,969						1			
Danville, Va	20,183		1				2		2	
Davenport, Iowa	49,618		1				2			
Dayton, Ohio	128,939	28			1	1	2		6	1
Decatur, Ill	41,483	10	5	1						
Dedham, Mass	10,618	0	1							
Denver, Colo	268,439	68	3	1	5		1			17
Des Moines, Iowa	104,052		1							
Detroit, Mich	619,648	158	24	4	34	1	11	1	61	22
Dover, N. H	13,276	6	1							
Dubuque, Iowa	40,096									1
Duluth, Minn	97,077	17			6	1	1		3	1
Durham, N. C	26,160	5							1	
East Chicago, Ind	30,286	9								
East Cleveland, Ohio	13,864						1			
Easthampton, Mass	10,656								1	
East Orange, N. J	43,761	6	1				2		3	
East St. Louis, Ill	77,312	16								2
Elgin, Ill	28,562	3			1					
Elizabeth, N. J	88,830		1						8	2
Elmira, N. Y	38,272	11	2		1				3	
El Paso, Tex	69,149	27			2					7
Englewood, N. J	12,603	2							1	
Eureka, Cal	15,142	2			1					
Evanston, Ill	29,304				1					1
Everett, Mass	40,160	9							3	3
Everett, Wash	37,205				1					
Fargo, N. Dak	17,872	3							1	
Findlay, Ohio	14,858	3							3	2
Flint, Mich	57,386	9	15		1					
Fond du Lac, Wis	21,486	2					1			
Fort Scott, Kans	10,564	4								1
Fort Wayne, Ind	78,014	18							6	1
Fort Worth, Tex	109,597	39	2	1						
Fostoria, Ohio	10,959	4								
Framingham, Mass	14,149	5					1		1	
Freeport, Ill	19,844	5							1	
Fremont, Nebr	10,080	3								
Fremont, Ohio	11,034	4								
Fresno, Calif	36,314	7								1
Galesburg, Ill	24,629	5								
Gloucester City, N. J	11,375		1		2				1	
Grand Rapids, Mich	132,861	25	1		1				1	2
Great Falls, Mont	[1]13,948	8								
Green Bay, Wis	30,017	13								3
Greenfield, Mass	12,251	2					1			
Greensboro, N. C	20,171	6								2
Greenwich, Conn	19,594								1	
Hackensack, N. J	17,412	1								
Hammond, Ind	27,016	9			5					
Harrison, N. J	17,345		1							
Hartford, Conn	112,851	27	6				1			
Haverhill, Mass	49,180	10	3	1					3	
Hibbing, Minn	17,550		2							
Highland Park, Mich	33,859	5	1		9		1			
Hoboken, N. J	78,324	8	2						4	

[1] Population Apr. 15, 1910.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Contd.

City Reports for Week Ended July 26, 1919—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Holland, Mich	12,459	3								
Holyoke, Mass	66,503	13			1		3		2	
Hoquiam, Wash	12,230		1				2			
Houston, Tex	116,878	22	2							
Hudson, N. Y	12,898	5								
Independence, Mo	11,964	3								
Indianapolis, Ind	283,622	72	5	1	4		1		8	6
Ironwood, Mich	15,095	7					1		2	2
Irvington, N. J	16,710						1		1	
Ithaca, N. Y	16,017	3								
Jamestown, N. Y	37,431	6	1		3				3	1
Janesville, Wis	14,411	4								
Jersey City, N. J	312,557		19	1	3		1		14	7
Johnstown, N. Y	10,678	2								
Joplin, Mo	33,400	4							1	
Kalamazoo, Mich	50,408	13	2		4		2		1	
Kankakee, Ill	14,270	3	1		1					
Kansas City, Kans	102,096		2		1				3	
Kearny, N. J	24,325	3							4	
Kenosha, Wis	32,833	8	1		1	1	2			
Knoxville, Tenn	59,112						1		4	4
Kokomo, Ind	21,929	11							3	1
Lackawanna, N. Y	16,219	6	1		1				2	
La Crosse, Wis	31,835	8								1
La Fayette, Ind	21,481	6							1	1
Lancaster, Ohio	16,086	5							1	
Lawrence, Mass	102,923	18					2		6	2
Leavenworth, Kans	19,363								1	
Leominister, Mass	21,365	3			2					
Lexington, Ky	41,997	26	1							3
Lima, Ohio	37,145	9			2				1	
Lincoln, Nebr	46,957	4			1					
Little Rock, Ark	58,716	10							1	2
Lockport, N. Y	20,028	5					1			
Logansport, Ind	21,338	7			1					
Long Beach, Calif	29,163	14			2					
Long Branch, N. J	15,733	2	1		1				1	
Lorain, Ohio	38,266	8			1		1		1	1
Los Angeles, Calif	535,485	127	20		3		3		57	25
Louisville, Ky	240,808	66	2						9	8
Lowell, Mass	114,366	18	1	1	1		2		7	
Lynchburg, Va	33,497	8					1		1	
Lynn, Mass	104,534	17	3				2		3	2
Macon, Ga	46,099	25								2
Madison, Wis	31,315	12	1							1
Malden, Mass	52,243	5			1		3		2	1
Manchester, Conn	15,859	1								
Manchester, N. H	79,607	22	3							3
Mankato, Minn	[1] 10,365	3								
Marinette, Wis	[1] 14,610	3					1			
Marion, Ind	19,923	3					1			
Marion, Ohio	24,129								2	
Marlboro, Mass	15,285	3			3				1	1
Marquette, Mich	12,555	3			10					1
Martins Ferry, Ohio	10,135	2								1
Mason City, Iowa	14,938	7								
Medford, Mass	26,681	8								1
Melrose, Mass	17,724	5			3					
Memphis, Tenn	151,877	12	1		1		1		4	4
Methuen, Mass	14,320	5							1	
Middletown, N. Y	15,890		1				4			
Middletown, Ohio	16,384	4					1		2	1
Milford, Mass	14,280	2								1
Milwaukee, Wis	445,008	95	8	1	7		14		21	5
Minneapolis, Minn	373,448	75	10	3	5		6		24	11
Missoula, Mont	19,075	5							2	
Mobile, Ala	59,201	10					1		1	
Moline, Ill	27,976		1						1	
Montgomery, Ala	44,039	14							2	
Morgantown, W. Va	14,444	2			2					
Morristown, N. J	13,410	3								
Moundsville, W. Va	11,513	2								

[1] Population April 15, 1910.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Contd.

City Reports for Week Ended July 26, 1919—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Mount Vernon, N. Y.	37,991	12	1						1	1
Muscatine, Iowa	17,713						1			
Nashua, N. H.	27,541	7					2			
Nashville, Tenn.	118,136	40					2		8	5
Natick, Mass.	10,140	4								
Newark, N. J.	418,789	97	19	1	3		5		25	12
New Bedford, Mass.	121,622	30	3	2	9		2		3	2
New Britain, Conn.	55,385	11			2		2		8	1
New Brunswick, N. J.	25,855		1						2	
Newburyport, Mass.	15,291	8								
New Haven, Conn.	152,275	19	1		2		1		7	1
New London, Conn.	21,199	8	1						2	
New Orleans, La.	377,01	112	4			1			16	14
Newport, Ky.	32,133	9							1	1
Newport, R. I.	30,585	7					1			2
Newton, Mass.	44,345	6	1							
New York, N. Y.	5,737,492	1,021	131	7	84	2	31	1	211	116
Niagara Falls, N. Y.	38,466	9	9	1	15		2		6	1
North Adams, Mass.	[1] 22,019	3								
Northampton, Mass.	20,006	7					1		1	
North Attleboro, Mass.	11,248	1	1							1
North Little Rock, Ark.	15,515	6								2
North Tonawanda, N. Y.	14,060								1	
Norwalk, Conn.	27,332								1	
Norwich, Conn.	21,923									2
Norwood, Ohio	23,269	2							2	1
Oakland, Calif.	206,405	37	8	1			3		6	1
Oak Park, Ill.	27,816	15	1		2					
Ogdensburg, N. Y.	16,845	2								
Oklahoma City, Okla.	97,588	15	1				1			
Olean, N. Y.	16,927	3								1
Omaha, Nebr.	177,777	22								3
Orange, Conn.	14,393	7								4
Orange, N. J.	33,636	7	1		1				3	1
Oshkosh, Wis.	36,549	8							1	1
Parkersburg, W. Va.	21,059	4							1	2
Parsons, Kans.	15,952								2	
Pasadena, Calif.	49,620	8							2	1
Passaic, N. J.	74,478	8							1	
Paterson, N. J.	140,512		1				3		5	
Pawtucket, R. I.	60,666	18					2			1
Peoria, Ill.	72,184	18	1		1				3	1
Perth Amboy, N. J.	42,646	8							2	
Philadelphia, Pa.	1,735,514	353	52	3	63	2	15	1	86	42
Phillipsburg, N. J.	15,879	4	1							
Pine Bluff, Ark.	17,777		1							
Piqua, Ohio	14,275	2							1	1
Pittsburgh, Pa.	586,196		16		6		7		21	
Pittsfield, Mass.	39,678	7			2				2	1
Plainfield, N. J.	24,330	5			5				2	2
Plattsburg, N. Y.	13,111	2								1
Plymouth, Mass.	14,001	4								
Pocatello, Idaho	12,806						2			
Pontiac, Mich.	18,006	7			8				4	
Port Chester, N. Y.	16,727	3			1				1	
Portland, Me.	64,720	15					5			1
Portland, Oreg.	308,399	44	3	1	1		4		12	1
Portsmouth, Ohio	29,356								1	
Portsmouth, Va.	40,693	27			1				2	1
Poughkeepsie, N. Y.	30,786								3	1
Providence, R. I.	259,895	41	5		1		5			2
Quincy, Mass.	39,022	5					3			1
Racine, Wis.	47,465	10			2				3	2
Rahway, N. J.	10,361	1								
Redlands, Calif.	14,573	3								
Reno, Nev.	15,514	2								
Richmond, Va.	158,702	53	4	1	3				11	8
Riverside, Calif.	20,496	4	4							1
Roanoke, Va.	46,282	16								
Rochester, N. Y.	264,714	63	3		2		5		9	3
Rockford, Ill.	56,739	15	2				1			3
Rock Island, Ill.	29,452	6								

[1] Population April 15, 1910.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Contd.

City Reports for Week Ended July 26, 1919—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Rocky Mount, N. C	12,673	5							1	1
Rome, Ga	15,607		2							
Rome, N. Y	24,259								1	
Rutland, Vt	15,038	1								
Sacramento, Calif	68,984	14	2						6	3
Saint Cloud, Minn	12,013								1	
Saint Joseph, Mo	86,498	25	3							3
Saint Louis, Mo	768,630	166	43	4	27		5		26	10
Saint Paul, Minn	252,465	41	16	1	2		2		12	6
Salem, Mass	49,346	12	1				1			1
Salt Lake City, Utah	121,623	31	2							2
San Bernardina, Calif	17,616	4								2
San Diego, Calif	56,412	24							1	2
Sandusky, Ohio	20,226	10			2					
Sanford, Me	11,217	1							2	
San Francisco, Calif	471,023	143	2		6		7		20	14
Santa Cruz, Calif	15,150	4								
Saratoga Springs, N. Y	13,839	3							1	1
Saugus, Mass	10,210	2			3		1			
Sault Ste. Marie, Mich	14,130		1							
Savannah, Ga	69,250	30	3	2			1		4	4
Schenectady, N. Y	103,774	14	2		2				3	1
Seattle, Wash	366,445		5		6		11			
Somerville, Mass	88,618	13	2				1		5	1
South Bend, Ind	70,967	15								2
Southbridge, Mass	14,465	1								
Spartanburg, S. C	21,985	6	2							
Spokane, Wash	157,656				7		5			
Springfield, Ill	62,623	20					2			
Springfield, Mass	108,668	38	1				1		3	3
Springfield, Mo	41,169	7								
Springfield, Ohio	52,296	8							2	
Steubenville, Ohio	28,259	4	1							
Stockton, Calif	36,209	14					1			
Superior, Wis	47,167	2					1			
Syracuse, N. Y	158,559	25			1		2		1	2
Tacoma, Wash	117,446		6				1			
Taunton, Mass	36,610	9							1	2
Terre Haute, Ind	67,361	12								1
Toledo, Ohio	202,010	56	2	1	55	1	7		15	4
Topeka, Kans	49,538	13	1						5	2
Trenton, N. J	113,974	42			11				7	4
Troy, N. Y	78,094	25	1						8	3
Tulsa, Okla	32,507								1	
Tuscaloosa, Ala	10,824	2	1						2	
Vallejo, Calif	13,803	2								
Waco, Tex	34,015	7								2
Wakefield, Mass	12,947	1								
Waltham, Mass	31,011	6	3		6					
Washington, D. C	369,282		7	1	1		1		17	8
Watertown, N. Y	30,404		4				2		2	
Wausau, Wis	19,666	3							4	1
Webster, Mass	13,484	3								
Westfield, Mass	18,769	3	3						1	
West Hoboken, N. J	44,386	2								1
West New York, N. J	19,613	2							1	
West Orange, N. J	13,964	1	1				1		1	
Wheeling, W. Va	43,657	12								
Wichita, Kans	73,597	16	2						2	
Wilmington, Del	95,369								2	
Wilmington, N. C	30,400	3			1				1	2
Winchester, Mass	10,812	1								
Winona, Minn	[1] 18,583		1							
Winston-Salem, N. C	33,136	10							1	
Winthrop, Mass	13,105						1			
Woburn, Mass	16,076	5								
Worcester, Mass	166,106	41	3				1		14	5
Yakima, Wash	22,058				7					
Yonkers, N. Y	103,066	22	6		6		1		4	1
Youngstown, Ohio	112,282	31	2		4		2		5	3
Zanesville, Ohio	31,320	6							2	

[1] Population Apr. 15, 1910.

FOREIGN.

AUSTRALIA.

Influenza—Brisbane—Newcastle—South Australia.

Influenza has been further[1] reported in Australia as follows:

Brisbane.—At Brisbane, State of Queensland, during the four weeks ended June 28, 1919, 3,619 new cases of influenza were reported. (Population, 143,000.)

Newcastle.—At Newcastle (with eight suburbs), State of New South Wales, during the period from June 8 to July 5, 1919, 287 new cases of pneumonic influenza were reported. (Population, 49,858.)

State of South Australia.—In the State of South Australia during the period from June 1 to 21, 1919, 1,149 cases of influenza with 94 fatalities were reported. (Population, estimated, 436,640.)

Influenza—State of Western Australia Declared Infected—Quarantine.[2]

Under date of June 19, 1919, the Governor General of the Commonwealth of Australia declared the State of Western Australia infected with influenza and ordered quarantine measures to be observed against the infected area as regarded persons and merchandise.

BRAZIL.

Influenza—Bahia.

Influenza was reported present at Bahia, Brazil, in January, 1919, with 9 cases, in February with 3 cases, and in March, April, May, and June, 1919, with a total of 9 cases.

Influenza—State of São Paulo.

During the period from January to May, inclusive, 1919, 257 fatal cases of influenza were reported in the State of São Paulo, Brazil. The cases were distributed as follows: São Paulo, capital, 98 deaths (population, 528,295); Campinas, 69 (population, 105,160); Santos, 13 (population, 95,365); Ribeirão Preto, 47 (population, 56,000); São Carlos, 14 (population, 70,209); Guaratingueta, 8 (population, 51,655); Botucatu, 8 (population, 33,545).

There were reported during the month of November, 1918, 5,304 cases of influenza, and during the month of December, 1918, 597 cases, occurring in the cities of São Paulo, Campinas, Ribeirão Preto, and Santos.[3]

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[1] Public Health Reports, July 11, 1919, p. 1570, and July 25, 1919, p. 1664.
[2] Idem, July 18, 1919, p. 1612.
[3] Idem, Mar. 28, 1919, p. 667.

CHINA.

Cerebrospinal Meningitis—Hongkong.

Cerebrospinal meningitis has been continuously reported present at Hongkong, China, since the beginning of the current year. During the month of January, exclusive of the week ended January 11, for which data have not been received, 22 cases of cerebrospinal meningitis were reported; during the month of February, 27 cases. In March, 1919, a marked increase was observed, 77 cases being notified. In April, 50 cases were notified; in May, 33 cases. Ten cases were notified from June 1 to 21, 1919.

Quarantine Against Hongkong—Cerebrospinal Meningitis.

During the months of April and May, 1919, quarantine measures were ordered to be enforced against arrivals from Hongkong, on account of cerebrospinal meningitis, as follows: At Amoy, Canton, Chefoo, Newchwang, Ningpo, Shanghai, Swatow, and Tientsin, in China; in the Philippine Islands; at Bangkok, Siam; and at Singapore, Straits Settlements.

Examination of Rats—Hongkong.

During the month of April, 1919, out of 8,215 rats taken, 20 were found plague infected and during the month of May, 1919, out of 10,961 rats taken, 58 were found plague infected.

Mortality—Comparative Statistics, 1916–1918—Hongkong.

During the period 1916–1918, mortality from all causes was reported at Hongkong as follows: 1916, 10,558 deaths; 1917, 10,433; 1918, 13,714 (estimated population, 561,500).

The table following shows mortality from certain diseases during the periods under report:

	1916	1917	1918
Influenza			405
Cerebrospinal meningitis			903
Smallpox	542	549	26
Typhoid fever	146	116	179
Diphtheria	51	61	98
Cholera	10		
Dysentery	306	190	225
Plague	39	35	251
Malaria	378	416	398
Syphilis	394	336	446
General tuberculosis	561	438	475
Beriberi	520	654	804
Pneumonia	1,577	1,532	2,251
Phthisis and pulmonary tuberculosis	984	854	1,065
Enteritis and gastroenteritis	770	775	820

Influenza—Canton.

Influenza was reported prevalent at Canton, China, June 30, 1919.

JAPAN.

Cerebrospinal Meningitis—Kobe—Nov.-Dec., 1918—Jan.-July, 1919.

During the month of November, 1918, cerebrospinal meningitis was present at Kobe, Japan, with 12 reported cases, and from December 1 to 28, with 19 cases. From December 29, 1918, to January 25, 1919, 40 cases were reported; January 26 to February 15, 26 cases; March 2 to 29, 45 cases; March 30 to April 26, 54 cases; April 27 to May 31, 72 cases; June 1 to July 5, 60 cases.

Cholera—Taihoku and Keelung, Island of Taiwan.

Cholera was reported present, August 5, 1919, in the Island of Taiwan (Formosa), at Taihoku, and in Keelung and vicinity.

Influenza—Mortality, 1918-1919.

From October 1, 1918, to April 30, 1919, 250,333 fatal cases of influenza were reported in Japan. (Quoted from the Bulletin of the Quarantine Service, Commonwealth of Australia, June 6, 1919.) Population of Japan, 50,751,900.

NEW ZEALAND.

Further Relative to Influenza.[1]

During the period from May 19 to June 2, 1919, 89 cases of influenza were reported in New Zealand. (Population, 1,029,400.)

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.

Reports Received During Week Ended Aug. 15, 1919.[2]

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Canton	June 22-28	3	2	
Do	August 8			Present. In foreign section, Island of Sha-mien.
India:				
Calcutta	June 8-14		81	
Indo-China:				
Cochin China—				
Saigon	June 9-22	112	80	
Japan:				
Taiwan Island—				
Keelung	August 5			Present, vicinity of Keelung.
Taihoku	do			Present.
Philippine Islands:				
Manila	June 15-21	2	1	
Provinces				June 15-21, 1919: Cases, 163; deaths, 113.
Batangas	June 15-21	6	5	
Bohol	do	8	4	
Bulacan	do	17	11	
Cavite	do	9	6	
Ilocos Sur	do	1		
Laguna	do	11	7	
Nueva Ecija	do	14	10	
Pampanga	do	26	19	
Pangasinan	do	49	34	
Tayabas	do	22	17	

[1] Public Health Reports, June 13, p. 1343.
[2] From medical officers of the Public Health Service, American consuls and other sources.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received During Week Ended Aug. 15, 1919—Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Philippine Island—Continued.				
Manila	June 22-28	4	3	
Provinces				June 22-28, 1919: Cases, 288; deaths, 205.
Bantangas	June 22-28	48	37	
Bohol	do	3	4	
Bulacan	do	14	7	
Cavite	do	6	6	
Cebu	do	24	11	
Nueva Ecija	do	36	22	
Pampanga	do	31	22	
Pangasinan	do	55	42	
Tayabas	do	64	47	
Union	do	7	7	

PLAGUE.

China:				
Canton	June 22-28	1	1	
Hongkong	June 8-14	27	20	
India:				
Calcutta	do		3	
Indo-China:				
Cochin China—				
Saigon	June 9-22	4	2	Including district of Saigon.

SMALLPOX.

Brazil:				
Bahia	May 25-June 7	2		Jan. 12-May 3, 1919: Cases, 10.
Pernambuco	May 4-25	5		
Canada:				
New Brunswick—				
St. John	July 27-Aug. 2	1		
Nova Scotia—				
Halifax	July 20-26	10		Counties: Pictou, East Hants, and in Inverness County, Cape Breton Island.
Ontario—				
Hamilton	July 27-Aug. 2	1		
Quebec—				
Restigouche	June 15-July 31	40		Estimated. Occurring on Indian Reserve.
China:				
Chungking	June 15-28			Present.
Foochow	June 15-July 5			Do.
Nanking	June 22-28			Do.
France:				
Havre	May 23-30	1		
Paris	June 22-28	5		
Gibraltar	June 28-July 5		2	One from Bay.
Greece:				
Saloniki	June 1-7		10	
India:				
Calcutta	June 8-14		47	
Italy:				
Leghorn	June 24-29	1		
Turin	June 23-29	1		
Japan:				
Kobe	May 4-July 5	117	57	
Taiwan Island	June 25-July 1	1	1	
Mexico:				
Vera Cruz	June 13-19	2		
Newfoundland				July 19-25, 1919: Outports, 4 cases.
Portugal:				
Lisbon	June 22-28	20		

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Receivd During Week Ended Aug. 15, 1919—Continued.

TYPHUS FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Greece:				
Saloniki	June 1-7		3	
Italy:				
Trieste	July 6-12	1		
Japan:				
Nagasaki	June 30-July 13	4		
Mexico:				
Mexico City	July 6-12	32		
Portugal:				
Lisbon	June 22-28	1		

YELLOW FEVER.

Brazil:				
Bahia	May 18-June 14	26	11	Jan. 12-May 17, 1919: Cases, 43; deaths, 25.

Reports Received from June 28 to Aug. 8, 1919.

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon:				
Colombo	Apr. 20-26	10		
China:				
Canton	June 8-21	10	3	
Foochow	July 3			Present.
Swatow	June 2-21		118	
India:				
Bombay	Apr. 28-June 7	29	25	
Calcutta	May 4-31		476	
Madras	May 18-24	10	8	
Rangoon	Apr. 28-June 7	73	53	
Indo-China:				
Cochin-China—				
Saigon	Apr. 21-June 8	218	152	City and district.
Japan:				
Pescadores Islands	July 14	40		In one village.
Java:				
East Java				Apr. 2-May 20, 1919: Cases, 553; deaths, 459.
Surabaya	Apr. 23-May 20	83	66	
Mid-Java				Mar. 28-Apr. 24, 1919: Cases, 1,595; deaths, 1,225.
Samarang	Mar. 28-Apr. 24	75	74	
West Java				May 2-June 9, 1919: Cases, 70; deaths, 43.
Batavia	May 2-June 5	12	5	
Persia:				
Ardebil	May 2			Present.
Enzeli	Apr. 23	1		
Khorram-Abab	May 3			Outbreak.
Mianedge	Apr. 28			Do.
Zindjan	Apr. 21-May 4		49	
Philippine Islands:				
Manila	Apr. 26-May 31	7	2	
Provinces				May 4-24, 1919: Cases, 567; deaths, 383.
Batangas	May 4-24	25	23	
Bulacan	do	48	25	
Cebu	do	162	84	
Laguna	do	20	15	
Mindoro	do	19	14	
Misamis	do	9	2	
Pampanga	do	166	131	
Tayabas	do	118	89	
Provinces				June 1-14, 1919: Cases, 164; deaths, 117.
Batangas	June 1-14	25	19	
Bulacan	do	32	19	
Cavite	June 8-14	7	2	
Laguna	do	5	6	
Nueva Ecija	June 1-14	10	7	
Pampanga	do	48	38	
Pangasinan	June 8-14	9	5	
Tayabas	do	22	17	
Siam:				
Bangkok	Apr. 13-May 17		693	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from June 28 to Aug. 8, 1919—Continued.

PLAGUE.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Canton	May 25-June 21			Present. Apr. 27-May 10, 1919: Cases, 3; present May 24-June 7, 1919.
Foochow	May 18-24			Do.
Hongkong	June 15-28	42	33	
Ecuador:				
Guayaquil	June 16-30	2	1	
Posorja	June 1-30	3	1	Bathing place 65 kilometers from Guayaquil.
Egypt				Jan. 1-June 25, 1919: Cases, 638; deaths, 339.
Cities—				
Cairo	May 15		1	
Kantarah	June 19-20	4	2	Two European. Septicemic.
Port Said	May 1-4	1	2	
Suez	June 5-11	3	3	
Provinces—				
Assiout	May 17-June 24	80	41	
Beni-Souef	May 19-June 21	6	5	
Fayoum	May 18-June 21	8	7	
Girgeh	May 15-June 25	3	4	
Menoufia	June 8-24	5	1	
Minieh	May 24-June 25	29	11	
Great Britain:				
Liverpool	July 30	1	1	In dock laborer.
Hawaii:				
Paauhau	July 19	1		
India				Apr. 27-June 7, 1919: Cases, 7,807; deaths, 6,232.
Bombay	Apr. 28-June 7	259	182	
Calcutta	May 18-31		30	
Karachi	May 18-June 21	144	131	
Rangoon	Apr. 28-June 7	46	35	
Indo-China:				
Cochin China—				
Saigon	Apr. 21-May 25	22	16	City and district.
Japan:				
Yokohama	June 9-15	1	1	
Java:				
East Java				Apr. 8-May 20, 1919: Cases, 77; deaths, 77.
Surabaya	Apr. 23-May 20	6	6	
Mesopotamia:				
Bagdad	Apr. 19-June 6	317	246	
Basra	May 3-10	108	89	Including suburb of Ashar. Total from date of outbreak to May 19, 1919, 288 cases.
Siam:				
Bangkok	Apr. 27-May 17	2	2	
Straits Settlements:				
Singapore	Apr. 13-26	2	1	
On vessel:				
S. S. City of Sparta	Apr. 19-21	1	1	From Bombay Apr. 3, 1919: case a soldier: at sea.
Do	May 13-17	1	1	At Liverpool: case, a nativ member of the crew. (Public Health Reports, June 27, 1919, p. 1463.)

SMALLPOX.

Arabia:				
Aden	May 13-19		1	
Austria				Mar. 9-Apr. 5, 1919: Cases, 92.
Salzburg	Mar. 9-Apr. 5	50		
Vienna	do	17		
Azores:				
St. Michaels	June 7-20	1		
Brazil:				
Bahia	Apr. 20-May 3	2		
Canada:				
British Columbia—				
Vancouver	June 15-July 5	4		
New Brunswick—				
Campbellton	June 15-21	1		
Moncton	July 6-12	1		

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from June 28 to Aug. 8, 1919—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Canada—Continued.				
Novia Scotia—				
Cities—				
Halifax	June 15-July 19	101		
Sydney	June 8-21	3		
Counties—				
Antigonish	June 28			Present.
Cumberland	do			Do.
Guysborough	do			Do.
Halifax	do			Do.
Hants	do			Do.
Lunenburg	do			Do.
Ontario—				
Province				May 1-June 30, 1919: Cases, 166; deaths, 4.
Hamilton	June 29-July 5	1		
Harwich	May 1-31	14	2	Township in Kent County.
Ottawa	June 15-July 5	4		
Peterborough	June 15-21	4		
Walpole Island	May 1-31	42		Kent County. Island in Lake St. Clair. Among Indians.
Prince Edward Island—				
Charlottetown	July 16-19	6		
Quebec—				
Montreal	June 8-28	18		
Quebec	June 29-July 19	8		June 8-14, 1919: 10 cases. On incoming vessels.
Saskatchewan—				
Regina				Jan. 1-Apr. 30, 1919: Cases, 41; deaths, 1.
Ceylon:				
Colombo	May 1-31	4		
China:				
Amoy	May 20-June 16		13	
Canton	May 18-June 21			Present.
Chefoo	June 8-21			Do.
Chungking	May 4-June 14			Do.
Foochow	May 18-31			Do.
Hongkong	May 18-June 7	4	4	Do.
Nanking	May 25-June 21			Do.
Chosen (Korea):				
Chemulpo	Apr. 1-May 31	19	4	
Fusan	do	294	81	
Seoul	do	3	1	
Czecho-Slovakia:				
Prague	May 18-June 21	11	2	
Egypt:				
Alexandria	May 14-June 24	233	95	
Cairo	Jan. 2-Mar. 4	81	7	
Finland				Apr. 16-May 31, 1919: Cases, 357.
Provinces—				
Abo Och Bjorneborg	Apr. 16-May 31	8		
Kuopio	do	45		
Nyland	do	9		
St. Michael	do	51		
Tavastehus	do	30		
Vasa	do	7		
Viborg	do	196		
France:				
Marseille	May 1-31		2	
Paris	May 11-June 21	12	6	
Great Britain:				
Cardiff	June 15-July 5	4		
Dundee	June 1-7	1		
Glasgow	June 8-21	5		
London	May 25-July 5	12		
Greece:				
Saloniki	May 15-21		18	
India:				
Bombay	Apr. 28-June 7	639	221	
Calcutta	May 4-31		353	
Karachi	May 4-June 21	28	17	
Madras	May 18-24	23	11	
Rangoon	Apr. 28-June 7	162	75	
Indo-China:				
Cochin-China—				
Saigon	Apr. 21-May 18	11	4	City and district.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from June 28 to Aug. 8, 1919—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Italy:				
Leghorn	June 16-22	1		
Messina	June 1-21	13		Province, June 8-21, 1919: Cases, 23; deaths, 3.
Milan	Mar. 1-Apr. 30	20	5	
Milazzo	June 1-7	1	1	
Naples	June 2-22	96	79	
Palermo	May 2-June 20	39	5	
Turin	May 18-June 22	4	1	
Venice	May 26-June 1	2		
Japan:				
Kobe	May 4-31	48	17	
Nagoya	June 1-7	1	1	
Taiwan	May 21-June 17	9	4	Entire island.
Tokyo	May 1-June 5	2		
Yokohama	May 26-June 1	1		
Java:				
East Java				Apr. 9-15, 1919: Cases, 1.
West Java				May 2-June 5, 1919: Cases, 419; deaths, 81.
Batavia	Apr. 18-June 5	4	1	
Manchuria:				
Dairen	May 13-June 2	3	2	
Mesopotamia:				
Bagdad	May 29-30	1		
Mexico:				
Mexico City	June 1-July 5	20	1	
Piedras Negras	June 22-28	2	2	
San Jeronimo	June 17-30	5		In State of Oaxaca.
Vera Cruz	July 6-12	2		
Newfoundland:				
St. Johns	June 13-July 4	3		June 13-July 18, 1919: Outports, 31 cases.
Philippine Islands:				
Manila	May 11-17	1		
Portugal:				
Oporto	June 2-14	17	9	
Portuguese East Africa:				
Laurenco Marques	Apr. 1-May 31	2	1	
Siberia:				
Vladivostok	June 8-15	23		
Spain:				
Almeria	May 18-June 16	48	5	
Barcelona	May 15-June 19	3	6	
Bilbao	May 1-10	1		
Cadiz	Apr. 1-May 31		5	
Madrid	May 1-31	3		
Valencia	May 11-June 7	174	12	
Vigo	Apr. 12	2		From vessel. Mar. 22, 1919: Present in villages in vicinity.
Straits Settlements:				
Singapore	Mar. 24-May 10	4	2	
Tunis:				
Tunis	June 15-28	2	1	
On vessels:				
S. S. Eastern	Apr. 25-26	2	1	Death at sea. Second case landed at Woodman's Quarantine Station, Fremantle, Australia, Apr. 29. Vessel from England via Egypt and Colombo.
S. S. Karoa	Apr. 19	1		Landed at Colombo. Vessel from the United Kingdom via Egypt and Colombo.
S. S. Khyber	Apr. 10-May 4	4		From Liverpool, via Port Said, Suez, and Colombo. One case landed at Port Said Apr. 10, 2 cases at Colombo Apr. 22, 1 at quarantine, Fremantle, Australia, May 4, 1919.

TYPHUS FEVER.

Algeria:				
Algiers	May 1-31	76	8	
Austria				Mar. 23-Apr. 5, 1919: Cases, 118.
Vienna	Mar. 23-Apr. 5	9		
China:				
Changsha	May 11-17	1	1	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from June 28 to Aug. 8, 1919—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Chosen (Korea):				
Chemulpo	Apr. 1-May 31	54	8	
Fusan	May 1-31	4	1	
Seoul	Apr. 1-May 31	79	14	
Czecho-Slovakia:				
Prague	May 18-24	1		
Egypt:				
Alexandria	May 14-June 24	425	236	
Cairo	Jan. 2-Mar. 4	150	66	
Port Said	Jan. 9-Mar. 4	6	4	
Finland				Apr. 16-May 31, 1919: Cases, 16.
Provinces—				
Abo Och Bjorneborg	May 15	1		
Nyland	Apr. 16-May 31	4		
St. Michael	Apr. 16-May 15	8		
Viborg	do	3		
Germany	Jan. 12-Feb. 22	344		Military.
Do	Feb. 23-Mar. 22	220		Civil.
Do	Mar. 23-Apr. 12	333		Civil, military, prisoners of war, deserters.
Great Britain:				
Glasgow	June 8-July 5	13	2	
Dundee	June 30-July 5	3		
Greece:				
Saloniki	May 15-21		2	
Hungary				Feb. 24-May 9, 1919: Cases, 258.
Budapest	Feb. 24-May 9	124	6	
Debreczin	do	42		
Italy				Apr. 28-June 8, 1919: Cases, 3,470—Austrian prisoners. 3,321; Italian soldiers, 82; civil population, 67.
Genoa	June 25-July 1	62		17 Austrian prisoners.
Naples	May 12-June 22	50	16	
Venice	Apr. 27-June 14	58	9	
Japan:				
Nagasaki	June 16-29	3		
Mesopotamia:				
Bagdad	Apr. 19-June 6	34	22	
Mexico:				
Mexico City	May 4-July 5	211		
Newfoundland:				
St. Johns	June 21-27	1		From vessel.
Palestine:				
Jaffa				Oct. 22-Dec. 22, 1918: Cases, 8; deaths, 3.
Portugal:				
Oporto	June 1-15	52		
Siberia:				
Vladivostok	June 9-15	90		
Spain:				
Barcelona	May 15-21		1	
Madrid	May 1-31		1	
Tunis:				
Tunis	May 24-June 21	3	1	

YELLOW FEVER.

Brazil:				
Bahia	Apr. 12-May 17	22	15	July 29, 1919, reported seriously prevalent in States of Bahia and Pernambuco.
Ecuador:				
Guayaquil	May 1-31	1	1	
Naranjito	May 1-June 15	2	1	
Mexico:				
Merida	June 30-July 26	17	7	State of Yucatan.
Peru:				
Paita	July 10-22	8	5	Department of Piura.
Piura	do	46	10	Do.
Salvador:				
La Union	July 6	2		
St. Miguel	June 24-July 6	4		75 miles from city of San Salvador.
San Salvador	do	1	1	